

RED LION[®] ***CHEMICALS***



- Adhesives and Sealants
- Bulk Chemicals
- Cleaners and Degreasers
- Skin Care
- Insecticides
- Lubricants
- Paints and Coatings
- Paint Removers
- Specialty Products
- Eco-Friendly Chemicals
- Odor Eliminators
- Dispensing Equipment

RED LION[®] CHEMICAL FORMULATIONS PROVIDE THE ULTIMATE IN PERFORMANCE WHILE MAINTAINING MAXIMUM SAFETY FOR THE USER. Aerosols, bulk and specialty products that work better, faster and safer.



CHROMATE INDUSTRIAL CORP.

EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

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Adhesives and Sealants



Concrete Crack Repair

Part #74508 – 5 Gallon Pail (74g)

(Epoxy polymer repair for concrete)

A trowelable polymer composite for repairing cracked and spalled concrete. Outlasts ordinary concrete. Provides four times the compression strength and ten times the tensile strength of standard concrete. It is non-shrinking, non-cracking and may be feather edged or poured up to 5 inches thick. One 5-gallon pail will surface approximately 15 square feet of floor at 1/4" thickness.

Features

- Easy-to-use, permanent concrete repair
- Trowelable polymer composite
- Non-shrinking and crack resistant
- 4 times stronger than original cement
- Can be Feathered or Poured up to 5" Thick

Applications

- Ideal for setting anchors
- Filling cracks, gaps, holes, etc.

Drop-Tite™ Epoxy System

Part #74534 – 21.2 oz

("Fast cure" formula for projects requiring "fast bolt-up")

A "fast cure" formula specially developed for projects requiring "fast bolt-up" and extended working time in a variety of applications. The complete system comes with a 22-oz. two-part epoxy cartridge and two 3/8 mixing nozzles. Must be used with dual cartridge caulking gun, p/n 8250 (see Dispensing Equipment).

Features

- Superior Bond Strength – maintains its full bonding integrity under seismic and vibratory loads, even in underwater applications.
- Exhibits no offensive odors which is especially important when work is performed in enclosed areas.
- Bonding Not Affected by Concrete Dust – wets through residual dust and adheres directly to concrete or steel.
- Corrosion Resistant – seals out oxygen and moisture that can cause corrosion.
- Minimal Shrinkage – when compared to other epoxies and formulas containing styrene.
- Non-Combustible – flash point is three times greater than that of formulas containing highly flammable styrenes.
- Non-Carcinogenic – contains no styrene and is safer for users.
- Longer Shelf Life – 2-3 times longer than products containing styrene.

Applications (For use with Drop-Tite™ Anchors)

- Horizontal, vertical and overhead anchoring and doweling
- Seismic repair and upgrade
- Concrete repair (non-structural)
- Bonding applications
- Use in concrete, hollow concrete block (CMU), solid and hollow brick and stone

CURE TIMES*

Gel 8-10 Minutes
Loading 4 Hours
Full-Cure 48 Hours
Recommended

Temp. Range 36°F-110°F

*Based on a temperature of 78°F (25°C).
Gel times are calculated on a mass of 20 grams. The recommended temperature range refers to the maximum and minimum substrate temperatures in which the product may be used.



P/N 8251 – Mixing Tube

Adhesives and Sealants



Double/Bubble® Epoxy Extra Fast

(Extra fast setting epoxy adhesive / 5 packets per box)

Part #74499 – 3.5 g

Strong and versatile. Does more to repair jobs in less time. Contains no solvents. Will not shrink.

Features:

- Work time: 3 minutes
- Handling strength: 15-30 minutes
- Fills gaps
- Does not induce galvanic corrosion

Applications:

- Bonds metal, glass, ceramics, wood, stone, concrete, most hard plastics, leather
- For repairing tools, auto parts, electronic components, furniture, etc.

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Double/Bubble® Machineable Epoxy

(Fast setting / 5 packets per box)

Part #74498 – 3.5 g

A machineable tooling and body patch that adheres to metal, wood and hard plastics. Can be machined, sanded, drilled and tapped.

Features:

- Work time: 25 minutes-
- Handling strength: 4 hours
- Aluminum color
- Contains no solvents

Applications:

- Patching and filling voids and scratches in plastic and metal tooling, patterns and furniture.

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Double/Bubble® General Purpose Epoxy

(A long work-life adhesive / 5 packets per box)

Part #74497 – 3.5 g

Features:

- Work time: 2 hours
- Handling strength: 8 hours
- Does not induce galvanic corrosion

Applications:

- For bonding wood, metal, ceramics, concrete, rubber & plastics
- Repair of tools, furniture and sports equipment. An excellent adhesive for use with fiberglass cloth.

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Double/Bubble® High Peel Strength Epoxy

(Flexible, tough and durable / 5 packets per box)

Part #74496 – 3.5 g

Features:

- Work time: 3 hours
- Handling strength: 18 hours
- Vibration resistant adhesive
- High peel and shear strengths

Applications:

- Bonds to polystyrene, ABS nylon, metal, wood, masonry and rubber
- For repair of sports equipment, marine, aircraft, auto, truck and tractor parts. Excellent adhesive for grinding wheel hubs, door and window gaskets.

Adhesives and Sealants



Double/Bubble® Wet Surface Patch Epoxy

(A gap filling adhesive / 5 packets per box)

Part #74495 – 3.5 g

For use in damp or moist environments. Cures and bonds under water. Bonds to stone, concrete, metal, glass, china, wood and fiberglass.

Features:

- Work time: 25 minutes
- Handling strength: 5 hours
- Gray color

Applications:

- Wet crack sealant and plumbing patch. For repair of gutters, battery cases and boats. Excellent adhesive for use with fiberglass tape.



Double/Bubble® Water Clear Epoxy

(Use as an adhesive or coating / 5 packets per box)

Part #74494 – 3.5 g

Covers and fills scratches. Impact resistant. Bonds to metal, ceramics, glass, porcelain and wood.

Features:

- Work time: 1 hour
- Handling strength: 8 hours
- No color – clear
- Does not electrically corrode copper

Applications:

- Repair of printed circuit boards, optical fibers, lenses and other optical equipment, jewelry, art objects and other applications where a clear bond is desired.



Double/Bubble® Regular Setting Epoxy

(Regular setting epoxy adhesive / 5 packets per box)

Part #74493 – 3.5 g

Strong and versatile. Does more to repair jobs in less time. Contains no solvents. Will not shrink.

Features:

- Work time: 45 minutes
- Handling strength: 4 hours
- A low-viscosity adhesive
- Fairly long work-life
- Cures to a light color

Applications:

- Bonds well to wood, metal, concrete, fabrics and most plastics
- Excellent for applications requiring a thin glue line. Ideal for fine furniture, hobby use and sports equipment.



Double/Bubble® Extra Fast Set (Non-Sag) Epoxy

(Extra-fast setting / 5 packets per box)

Part #74492 – 3.5 g

Strong and versatile. Does more to repair jobs in less time. Contains no solvents. Will not shrink.

Features:

- Work time: 3 minutes
- Handling strength: 15-30 minutes
- Non-sag (thixotropic) adhesive
- For quick repairs

Applications:

- Bonds to wood, glass, metal, stone, ceramics and leather
- Ideal for quick, permanent, vertical and overhead repairs. For fixturing, tacking, sealing, gap filling and staking in electrical and industrial applications.

Adhesives and Sealants



Double/Bubble® Urethane – Flexible (Shore Hardness D-50)

P/N 74417 – 3.5 g

- A good combination of high peel and lap shear strengths
- It is semi-flexible and will bond to rubber, leather, china and many plastics

Uses: For automotive repairs, bonding aftermarket replacement mirrors, etc., repair of shoes, ski boots and other sports equipment, repair of conveyor belts.

Work time: 3-5 minutes

Handling strength: 1 hour

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Double/Bubble® Urethane – Semi-Rigid (Shore Hardness D-85)

P/N 74418 – 3.5 g

- Extra fast setting, semi-rigid
- Combines very high lap shear strength with good peel strength

Uses: For repair of urethane RIM parts. Recommended for repair of rubber hoses and flexible electrical connections.

Work time: 3-5 minutes

Handling strength: 1 hour

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Double/Bubble® Urethane – Very Flexible (Shore Hardness A-85)

P/N 74419 – 3.5 g

- Fast setting with high peel strength
- Tough and flexible
- Bonds to most metals, plastics, rubber, glass and leather
- Good for low temperature, sub-zero applications
- Patching and filling voids and scratches in plastic and metal tooling, patterns and furniture

Uses: Repair of construction and off-road tires, flexible conveyor belts, printing press rollers, rubberized fabrics, shoes, ski boots and other sports equipment. For bonding refrigeration and air-conditioning equipment.

Work time: 8 minutes

Handling strength: 45 minutes

Adhesives and Sealants



E-Z PoxylmTM 200

Part #74502 – 4 oz.

(For steel hard repairs in a stick)

A combination of steel reinforced epoxy resin and hardener in a stick. Simply knead putty and apply to damaged area. It can be drilled, filed, tapped, sanded or machined after one hour.

Features:

- No measuring, mess or waste
- Fast – sets in 10 minutes
- Adheres to damp surfaces and hardens under water
- Certified to NSF/ANSI Standard 61 for use in contact with potable water and drinking water systems
- Authorized by the USDA for use in federally inspected meat and poultry plants

Applications:

- Perfect for repairing tanks, radiators, bathroom fixtures, tile, cars, boats, metal and wood furniture, downspouts, gutters, garbage cans, valves, cast iron, etc.

PHYSICAL PROPERTIES:

Density.....	18.5 lb./gal. (2.2 gm/cm ³)
Compression Strength.....	12,000 psi
Tensile Strength.....	6,000 psi
Modulus of Elasticity.....	6 x 10 ⁵ psi
Adhesive Strength.....	900 psi
Izod Impact.....	0.3 ft.-lb./in. (notched)
Hardness (Shore D).....	80
Maximum Use Temp.....	300°F (149°C)

ELECTRICAL PROPERTIES:

Volume Resistance.....	1 x 10 ¹² ohm-cm
Dielectric Strength.....	300 volts/mil @ 0.15 cm

IMPORTANT: Do not use on polyethylene, polypropylene and polybutylene.



E-Z PoxylmTM Aluminum

Part #74505 – 4 oz.

(Strong, fast setting, fast curing, multi-purpose epoxy putty stick)

A hand-kneadable, non-rusting, aluminum reinforced epoxy putty that mixes in just one minute to provide fast repairs to all types of aluminum. It comes in a handy four-ounce "tootsie roll" form with the curing agent encapsulated in the contrasting color base material. The putty-like consistency eliminates drips and runs, providing "no mess" applications with no tools required for use. Simply cut off amount needed, knead and apply.

Features:

- No measuring, mess or waste
- Fast – cures in 60 minutes
- Non-rusting – can even be applied underwater

Applications:

- Perfect for repairing storm doors, windows, aluminum boats, recreational vehicles, aluminum siding, aluminum tanks, castings, pipes and engine blocks.

PHYSICAL PROPERTIES:

Work Life (Minimum)	5-7
Shelf Stability	24 months (min. @ 75°F)
Shore D Hardness (full cure 24 hrs.)	75-85
Lap Shear Tensile Strength	500-700 on steel (1" x 1" x 1/16")
Compression Strength lbs./in. ²	12,000
Shrinkage	<1%
Non-Volatile Content	100%
Electrical Resistance	30,000 megohms
Dielectric Strength	300 volts/mil
Temperature	250°F continuous
.....	300°F intermittent

Chemical Resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.



E-Z PoxylmTM Aqua Repair

Part #74500 – 4 oz.

(Repairs wet areas and underwater surfaces)

A hand-kneadable, specialty epoxy putty that mixes in just one minute for repairs to damp, wet areas and underwater surfaces. It contains a fading dye and becomes "fiberglass white" after mixing. It may be applied underwater, in either fresh or salt water and will bond tenaciously to substances such as fiberglass, metal, wood, concrete, ceramic, glass, etc.

Features:

- No measuring, mess or waste
- Excellent as an adhesive
- Can be applied underwater
- Does not yellow when exposed to UV light
- Authorized by the USDA for use in federally inspected meat and poultry plants

Applications:

- Perfect for patching dings, scratches, cuts, gouges and holes in fiberglass, metal and wood.
- Repairs fittings, pipes, electrical connections, leaking gaskets, fuel tanks, etc.

PHYSICAL PROPERTIES:

Working Life (min.)	20
Shelf Stability	6 months (min. @ 75°F)
Shore D Hardness (full cure, 24 hrs.)	75
Lap Shear Tensile Strength on Steel (1" x 1" x 1/16")	700 Lbs.
Temperature	250°F continuous
Limitations	300°F intermittent
Chemical Resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	
Electrical Resistance	30,000 megohms
Dielectric Strength	300 volts/mil
Shrinkage	Less than 1%
Non-Volatile Content	100%
Compression Strength	12,000 psi

Adhesives and Sealants



E-Z Poxy™ Concrete

Part #74526 – 4 oz.

(Repairs and rebuilds anything made of concrete)

A hand mixable, fast curing epoxy putty stick that mixes in one minute to provide permanent repairs to concrete. Simply knead putty and apply to damaged area. Can be drilled, filed, tapped, sanded, machined, sawed or painted after one hour.

Features:

- Use as putty or adhesive
- No measuring, mess or waste
- Fast – sets in 10 minutes
- Adheres to damp surfaces
- Hardens under water
- Authorized by the USDA for use in federally inspected meat and poultry plants

Applications:

- Perfect for cracked and spalled concrete, setting anchors, and filling cracks, gaps, holes, etc.

PHYSICAL PROPERTIES:

Work Life	4-7 minutes
Shelf Stability @ 75°F.....	24 months (minimum)
Hardness (Shore D) (full cure 1 hour)	75-85 (ASTM D2240)
Lap Shear Tensile Strength	(ASTM D1002)
On Steel (1" x 1" x 1/16").....	500-800 lbs
On Concrete	Concrete failure
Compressive Strength	12,000 lbs/in ² (ASTM D695)
Density.....	2.005 gm/cm ³ (16.72 lb/gal.)
Prox. 5/16" Bolt Pullout.....	>2 tons (Dennison Block Test)
Shrinkage	<1% (ASTM D2566)
Non-Volatile Content.....	100%
Upper Temperature Limit	
Continuous	250°F
Intermittent.....	300°F
Chemical Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	



E-Z Poxy™ Copper

Part #74501 – 4 oz.

(Hardens like metal to form a copper repair)

A hand-kneadable, copper reinforced epoxy putty that hardens to an extremely tough and durable substance with exceptional adhesion. It can be drilled, tapped, filed, machined, etc. High pressure hot water pipes, tanks and radiators can be restored to service after just 60 minutes!

Features:

- No measuring, mess or waste
- Fast – cures in less than 60 minutes
- Contains real copper
- Certified to NSF/ANSI Standard 61 for use in contact with potable water
- Authorized by the USDA for use in federally inspected meat and poultry plants

Applications:

- Perfect for high pressure hot water pipes, sealing leaks in pipes, elbows, joints, sleeves, sink traps, drains, etc.
- Can also be used as an adhesive.

PHYSICAL PROPERTIES:

Density.....	15.8 lb./gal. (1.9 gm/cm ³)
Compression Strength.....	18,000 psi
Tensile Strength.....	6,000 psi
Modulus of Elasticity.....	6 x 10 ⁵ psi
Adhesive Strength	700 psi
Izod Impact.....	0.3 ft.-lb./in. (notched)
Hardness (Shore D).....	85
Maximum Use Temp.....	300°F (149°C)

ELECTRICAL PROPERTIES:

Volume Resistance.....	5 x 10 ¹⁵ ohm-cm
Dielectric	
Strength.....	400 volts/mil @ 0.125 in.

E-Z Poxy™ Cups

Part #74514 – 1.2 oz.

(Pre-measured, single use, fast setting epoxy)

Unique, pre-measured epoxy cups contain both resin and hardener in one convenient package. Self-package mixing eliminates measuring, squeeze tubes and weighing scales. No mess, guesswork or waste. Components are color-coded to assure complete mixing.

Features:

- Fast cure mixer cups
- Convenient self-package mixing
- Superior strength epoxy bonds almost anything
- No mess, no waste
- Bonds virtually any material

Applications:

- Bonds wood, ceramic, glass, marble, metal, plastic, concrete, stone, brick and much more.

TECHNICAL DATA:

Parts fixture in 5-15 minutes, full cure in 24 hrs	
Creep Strength	excellent
Peel Strength.....	good
Working Life.....	5 minutes @ 70°F
Chemical Resistance.....	excellent
Temperature	180°F



Adhesives and Sealants



E-Z Poxy™ Fast Set (Strong, permanent epoxy adhesive)

Part #74530 – 1 fl. oz.

Provides a durable repair resistant to solvents, moisture and impact.

Features:

- Easy-to-use dual piston dispenser
- Clear
- Sets in just 5 minutes
- Waterproof and solvent resistant

Applications:

- E-Z Poxy™ Fast Set bonds wood, metal, plastic, ceramic, glass, china, tile, fiberglass and laminates.

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E-Z Poxy™ Plastic (Restore, rebuild and repair ABS, CPVC and PVC plastic)

Part #74527 – 4.0 oz.

A patented, hand mixable epoxy putty that forms a durable bond to all major plastic types except polyolefins (polyethylene/polypropylene). When mixed together, the materials combine to form a polymer compound that can be molded into shapes, wrapped around or used to build up and repair just about anything made from rigid or semi-flexible plastics. After 2-3 hours, it can be drilled, sawed, carved, sanded or painted. Contains a fading blue dye and becomes white after mixing.

Features:

- No measuring, mess or waste
- Fast – sets in 10 minutes
- Adheres to damp surfaces
- Hardens under water

Applications:

- Perfect for rebuilding rigid and semi-flexible plastics
- Repairing automotive trim, appliance parts, outdoor furniture and more
- Sealing leaks in plastic plumbing pipe

PHYSICAL PROPERTIES:

Work Life (Minimum)	20-25 Minutes
Shelf Stability	24 months (min. @ 75°F)
Shore D Hardness (full cure 24 hrs.)	60-70
Lap Shear Tensile Strength (1" x 1" x 1/16")	500-800 on pvc
Compression Strength lbs./in. ²	12,000
Density	1.6, 13/4 (gm/cm ³ , lb.gal.)
Shrinkage	<1%
Non-Volatile Content	100%
Electrical Resistance	30,000 megohms
Dielectric Strength	300 volts/mil
Temperature	250°F continuous, 300°F intermittent
Chemical Resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	

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E-Z Poxy™ Wood (Restore, rebuild and repair all types of wood)

Part #74503 – 1.94 oz.

Repairs wood with an epoxy compound many times stronger than the wood itself. Simply knead putty and apply to damaged surface. It can be drilled, nailed, sanded, stained or painted – all within 60 minutes! Also eliminates the need to replace expensive damaged molding, trim, door jambs & furniture.

Features:

- No measuring, mess or waste
- Fast – cures in 45 minutes
- Will not dry out like conventional putties
- Simplifies wood repairs

Applications:

- Perfect for repairing damaged furniture, rebuilding or fabricating wood parts, repairing stripped screw holes.
- Can also be used as an abrasive.

PHYSICAL PROPERTIES:

Density	6.7 lb./gal. (0.8 gm/cm ³)
Compression Strength	18,000 psi
Tensile Strength	6,000 psi
Modulus of Elasticity	6 x 10 ⁵ psi
Adhesive Strength	700 psi
Izod Impact	0.3 ft.-lb./in. (notched)
Hardness (Shore D)	75 after 90 min.
Maximum Use Temp.	250°F (121°C)

ELECTRICAL PROPERTIES:

Volume Resistance	5 x 10 ¹⁵ ohm-cm
Dielectric Strength	400 volts/mil @ 0.125 cm

Adhesives and Sealants



Fast-Fix™ Epoxy Patch Kit

Part #74506

(Pre-measured, single use, fast setting fiberglass epoxy patch)

Repairs cracks and holes in pipe and hose. Pre-measured fiberglass patch is ideal for repairing cylindrical surfaces (hose, pipe, etc.) and for flat surfaces such as watertanks. Just blend the components together in the package and apply to any clean surface. It will cure in approximately 20 minutes – even on wet surfaces!

Features:

- Unique pre-measured package contains 4" x 12" patch and rubber gloves
- Permanently repairs virtually any surface
- Withstands 600°F and 150 psi pressure
- Safe for drinking water systems (*Tested for potability using EPA approved standard testing methods.*)
- Paintable



Fast-Fix™ Pipe & Hose Repair Kit

Part #74507

(Pre-mixed, air activated, single use, fast setting fiberglass epoxy wrap)

Resin impregnated fiberglass tape sealed in a foil pouch. Once opened, the tape is simply wrapped around any hose or pipe, and will set as hard as steel in just 30 minutes. It is ideal for stopping leaks and keeping on hand as an emergency repair kit.

Features:

- Unique pre-measured package contains 2" x 60" impregnated patch and rubber gloves
- Air activated resin
- Permanently repairs virtually any surface
- Withstands 600°F and 150 psi pressure
- Safe for drinking water systems (*Tested for potability using EPA approved standard testing methods.*)
- Paintable

Applications for #74506 & #74507:

- Oil Pipelines
- Gas Pipelines
- Off-Shore and Petroleum Refineries
- Steam Lines
- Plant Piping Systems
- Tanks
- Container Linings
- Industrial Irrigation Systems
- Commercial Irrigation Systems
- Underwater Cable Encapsulation
- Underwater Piling Encapsulation
- Underground Piping Structures
- Waste Water Treatment Plants
- Pneumatic Hoses and Lines
- Piping for Hydronic Heating
- HVAC Systems
- Kitchen and Bath Plumbing
- Underground Sprinklers
- Irrigation Systems
- Pool and Spa Piping
- RV Water Piping Systems
- Marine Water Piping Systems
- Boat Hulls
- Automobile Radiator Hoses
- Automobile Exhaust Systems
- Farm Machinery and Equipment
- Marine Exhaust Systems

TECHNICAL DATA:

Number of Piles	9
Fabrication Method	Wet Lay-up
Cure Time at 75°F	30 Minutes
Barcol Hardness	53
Dielectric Strength	16,060 Volts
Heat Resistance	1,100°F

CHEMICAL RESISTANCE:

Immersion Chemical	Total Immersion Time	Effect
Acetone	30 Days	Softened
Diesel Fuel	30 Days	No Effect
Ethyl Alcohol	30 Days	Soft, Rubbery
Gasoline	30 Days	No Effect
30% HCL	30 Days	Softened
Toluene	30 Days	Softened
MEK	30 Days	Soft, Rubbery
Chlorine	30 Days	No Effect

MECHANICAL PROPERTIES:

Structure	Method	PSI
Flexural Strength	ASTM D 709-71	16,100
Tensile Strength	ASTM D 638	24,900
Compression Strength	ASTM D 695-77	26,600
Bond Strength		98
4 Layers to Total Obliteration		
Spray Penetration Test (4 layers recycled from 50°F-90°F)		
Temperature Cycle Test (with no delamination or loss of bond)		

Adhesives and Sealants



Fast Weld Adhesive & Welding Powder (Double Bond Performance)

Part #74489

Adhesive - 28 g

Welding Powder - 40 g

The Adhesive bonds most materials instantly. These materials are rubber, glass, copper, aluminum, steel and most plastics. The Welding Powder is used to repair all types of holes, cracks, gaps and can produce a strong weld seam to support the repair, just like solder or welded joints.

Features:

- **Beyond Super Glue**
 - A combination of instant adhesive plus a welding powder.
- **An Incredible Tool**
 - Repairs almost anything.
- **Save Time & Money**
 - An advanced polymer adhesive that can bond quickly, sometimes instantly.
- **Double Bond Performance**
 - The welding powder enables even stronger bonds!

Benefits:

- High strength, bonds in seconds
- Can bond almost any material to itself or to another material
- Will not dry out in the container
- Adhesive dries crystal clear

Applications:

- Use on rubber, glass, copper, aluminum, steel and most plastics
- Repair holes, cracks, and gaps
- Can be filed, drilled, sanded, and painted almost immediately

Adhesives and Sealants



Instant Adhesive

Part #74516 – 1/3 fl. oz.

(Instant, high strength, cyanoacrylate adhesive for non-porous surfaces)

Ultra-high performance, versatile adhesive bonds metal, rubber, plastic and glass instantly. Red Lion Instant Adhesive works where others fail, providing the strongest bond on hard-to-bond surfaces.

Features:

- Permanent, super strength bond
- Easy to use
- Bonds instantly
- Saves time, money, labor and mess

Applications:

- Bonds metal, rubber, plastic and glass

TECHNICAL DATA:

Color	Clear
Gap Fill	.004"
Viscosity cP	40
Tensile Shear Strength PSI	2,500
Temperature Range	-65°F to 180°F (-54°C to 82°C)
Cure Speed	
Fixture.....	20-40 seconds
Full.....	24 hours



Instant Adhesive Gel

Part #74525 – .10 oz.

(Instant, high strength, cyanoacrylate adhesive for porous surfaces)

Ultra-high performance, versatile adhesive bonds wood, paper, leather, fabric, metal, rubber, plastic and glass instantly. Red Lion Instant Adhesive Gel works where others fail, providing the strongest bond on hard-to-bond surfaces. Particularly suited for bonding porous or absorbent materials such as wood, paper, leather or fabric.

Features:

- Permanent, super strength adhesive
- Bonds instantly – no waiting for product to cure
- Easy application – no mixing required
- Saves time, money, labor and mess

Applications:

- Bonds wood, paper, leather, fabric, metal, rubber, plastic and glass

TECHNICAL DATA:

Color	Clear
Viscosity cP	Gel
Tensile Shear Strength PSI	1,000 to 3,200
Temperature Range	-65°F to 180°F (-54°C to 82°C)
Cure Speed	
Fixture/Full	20-40 seconds
Full.....	24 hours

Just for Copper

Part #74553 – 1.85 oz.

(Solderless copper bonding)

Solderless copper bonding, bonds rigid copper pipes and standard fittings without heat. Changes from a liquid to a polyacrylic solid to provide maximum strength between tube and fitting. Works even when pipes are wet. No mixing, just shake, squeeze and apply. Is an insulator and will not conduct electricity.

Features:

- Easy to use, permanent cold weld for installing and repairing rigid copper pipe in potable hot and cold water
- Provides same permanent weld as hot solder
- Temperature range from -40°F to 245°F
- Holds 200psi 7 seconds after bonding; holds 500psi 4 hours after bonding
- Sets in 5 seconds; cures in 7 minutes
- 50g bottle makes up to 200 welds
- Approved for potable water and EPA National Drinking Water Standards

Applications:

- For use on pipes up to 2 diameter
- Use on copper pipe and copper and brass fittings



Adhesives and Sealants



Pow-R-Bond™ Adhesive

Part #74187 – 13.25 oz.

(Spray adhesive)

High strength, fast setting, permanent adhesive for all heavy duty general purpose bonding applications. Lace-like pattern sets up quickly for high contact strength. Dries in minutes. High temperature resistance to 140°F (60°C).

Features:

- Superior strength – handles heavy duty applications
- Permanent bond – assures durability
- Fast assembly – minimizes downtime
- Multi-purpose – provides versatility
- Heat resistant – for high temperature applications

Applications:

- Ideal for laminates, trim, signs, kick plates, wood working, maintenance and asbestos removal
- Adheres to most surfaces including wood, metal, glass, plastic, etc.



Spray Adhesive

Part #74130 – 13.25 oz.

(Multi-purpose, permanent, fast setting)

A multi-purpose light-duty spray adhesive that works on virtually any surface where an adhesive is needed. Remains tacky for several minutes to allow for repositioning.

Features:

- Strong permanent bond – assures effective repairs and secure assembly
- 3-position valve – allows proper dispensing of product
- General purpose – covers virtually any light-duty applications
- Temperature Range: 120°F continuous, 200°F intermittent

Applications:

- Ideal for gaskets, trim, foam, ceramics, ferrous and no-ferrous metals, cardboard, etc.

3M™ Spray Adhesives

P/N 74605 – 13.8 oz.

P/N 74606 – 13.8 oz.

P/N 74607 – 13.8 oz.

(Series 20 Aerosol Spray Adhesives)

P/N 74605 – 3M™ Multi-Purpose 27 Spray Adhesive

Extremely versatile adhesive is ideal for bonding paper, cardboard, fabrics, soft foams and many other lightweight materials.

- Fast tack
- Lightweight applications
- Mist spray pattern

P/N 74606 – 3M™ Foam & Fabric 24 Spray Adhesive

Fast-tack adhesive bonds foam to metal, wood and many other substrates (ideal for upholstery).

- Aggressive tack
- Foam-tearing strength
- Variable width lace spray pattern ensures precise placement.

P/N 74607 – 3M™ Woodworking 20 Spray Adhesive

High strength, fast-grabbing adhesive forms powerful, permanent bonds.

- Fast grab
- Bonds wood, laminates, metals, plastics and more
- Variable width lace spray pattern ensures precise placement



Adhesives and Sealants

CPVC Cement – Orange

Part #74552 – 16 oz.

(Cement for CPVC pipe and fittings)

Medium-bodied cement for use on CPVC pipe and fittings up to 6" diameter.

Features:

- Exceeds new environmental requirements and meets various California district rules
- Low V.O.C.
- Apply at temperatures 40°F to 90°F
- Exceeds ASTM D-2846, F-493
- NSF and UPC listed

Applications:

- For C.T.S. (copper tube size) and Schedule 80, potable water pressure pipe



PVC-ABS-CPVC Cement

Part #74550 – 16 oz.

(Multi-purpose cement)

Medium-bodied clear cement for ABS, PVC or CPVC up to 6" diameter.

Features:

- Apply at temperatures 40°F to 100°F
- Exceeds performance requirements of ASTM D-2564, D-2846, D-2235 and F-493

Applications:

- Recommended for pipe Schedule 40 and Schedule 80 potable water, pressure pipe, gas, conduit and DWV



PVC and CPVC Primer – Purple

Part #74549 – 16 oz.

(All-purpose primer/cleaner)

Removes surface dirt, grease and grime as well as softens pipe in preparation for solvent cement.

Features:

- Exceeds new environmental requirements and meets various California district rules
- Less aggressive than clear and standard purple primers
- Purple tint for verification for code
- Low V.O.C.
- Apply at temperatures 40°F to 100°F

Applications:

- For PVC and CPVC pipe and fittings



PVC Cement – Clear

Part #74551 – 16 oz.

(Cement for PVC pipe and fittings)

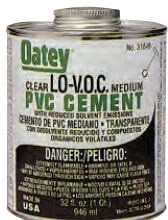
Medium-bodied clear cement for use on PVC pipe and fittings up to 6" diameter for Schedule 40 and Schedule 80.

Features:

- Exceeds new environmental requirements and meets various California district rules
- Low V.O.C.
- Apply at temperatures 40°F to 100°F
- Exceeds ASTM D-2564
- NSF and UPC listed

Applications:

- Recommended for gas, conduit, drain, waste and vent pipe



Adhesives and Sealants



Super Adhesive Sealant

Part #74510 – 3.7 fl. oz.

(Multi-purpose, flexible, high strength adhesive)

A versatile, high-performance industrial adhesive and sealant which provides exceptional mechanical and chemical bonding in plant, fleet, commercial and contractor applications. Adheres to and seals all woods, metals, concrete, masonry, ceramics, rubber, fiberglass, glass and plastics.

Features:

- Superior strength
- Extremely flexible
- Abrasion resistant
- Paintable
- Waterproof
- Self-leveling

Applications:

- Plant and Building Maintenance
- Transportation
- Marine
- Electrical
- Rubber Goods and Plastics
- Tools and Fasteners
- Construction and Carpentry

TECHNICAL DATA:

Temperature Range..... -40°F to 150°F
Tensile
Strength 3500 lb/in.² (ASTM D-412)
Elongation..... 900% (ASTM D-412)
Dielectric Strength 400 volts/mil
Dry Time Tack: 5 minutes
Paintable: 24 hours



Super Adhesive Sealant UV

Part #74554 – 10.2 fl. oz.

(Multi-purpose, ultra-violet light resistant high strength adhesive)

This multi-purpose, clear adhesive is formulated for use in applications that may be exposed to ultra-violet light. Adheres to wood, metal, rubber, glass and most plastics. It is not for use on Styrofoam™. Its flexible bond resists cold temperatures, yellowing, cracking and embrittlement. Can be submerged in fresh and salt water after complete cure. Great for bonding objects subject to wear and to vibration. Safe for applications exposed to dilute acids and dilute caustics. Recommended for all industrial applications where UV resistance is required.

Features:

- UV resistant formula
- Industrial strength
- Extremely flexible
- Waterproof
- Paintable
- Self-leveling

Applications:

- Plant and Building Maintenance
- Transportation
- Marine
- Electrical
- Rubber Goods & Plastics
- Tools and Fasteners
- Construction & Carpentry

TECHNICAL DATA:

Full Cure Time Thin film 24 hours,
..... Thick film 48-72 hours
Tensile Strength..... 3500 lb./in.
Elongation..... 900% (ASTM D-412)
Service Temperature Range... -40°F to 150°F
Paint-Over Time..... 24 hours
Dielectric Strength 400 V/mil



Liquid Electrical Tape

Part #74547 – 4 fl. oz.

(Brush applicator cap)

Forms a protective dielectric coating on electrical connections to seal out moisture and prevent corrosion. Will not peel or unravel. Flame retardant. Service temperature range is -30°F to +255°F. Completely waterproofs connections and can be applied to irregular shaped or hard-to-reach conditions.

Features:

- Seals and protects electrical connections
- Adheres to all metal, plastic, vinyl, rubber and composite surfaces
- Stops terminal screws from loosening from vibration
- Safe and easy to use
- Fast drying
- Dielectric strength 1000-1500 volts/mil

Applications:

- Bilge pumps, outdoor exposed wiring, sprinkler pumps, timers, underground wiring, outdoor lighting fixtures, instruments, computers... anywhere a weatherproof and dependable connection is needed.

Adhesives and Sealants



RTV Gasket Maker

(Tough silicone adhesive sealer/gasket maker)

The ultimate gasket maker and sealer in an easy to use dispenser.

It adheres to and bonds natural and synthetic fibers, metal, glass, wood, rubber, ceramic, painted and plastic surfaces. Seals against water, air, chemicals, oils and grease. Fills crevices and irregularities in joints. Waterproofs porous materials. Perfect for weather-stripping. Insulates against shock and vibration and a great electrical insulator. A perfect gasket maker for just about anything. When fully cured and washed, this product meets the following specifications: FDA Regulation No. 21 CFR 177.2600, MIL-A-46106, per current revision and type, and TT-S-001543A. This product is suitable for use in federally inspected meat and poultry plants.

Features:

- One-part silicone adhesive sealant
- Temperature range -80°F to +500°F (450°F continuous)
- Insulates and weatherproofs

Applications:

- For use on gasketing pumps, oil pans, valve covers, gear boxes, compressors, etc.
- Seals windows, pipe joints and parts
- Bonds gaskets, appliance parts, sign letters
- Caulks joints, duct work, equipment housings

NOTE: Do not use in direct contact with fuel oil, gasoline, acid or caustic materials. Not for use on head gaskets or carburetor base.



RTV TUBE EXTENSION TIP

Part #16065

Screws on RTV dispensers for precision application of sealer



RTV Gasket Maker (Hi-Temp Red)

Part #74153 – 8 oz.

(High temperature resistant, tough silicone adhesive)

The ultimate gasket maker and sealer features the most advanced technology in an easy to use dispenser, giving a uniform bead of any size or shape. It meets O.E.M. low volatile specifications for use with oxygen sensor equipped engines. Meets GM specs.

Features:

- Ultimate gasket maker
- Low odor
- Low volatile and non-corrosive
- Temperature range -60°F to +600°F (500°F continuous)
- Insulates and weatherproofs

Applications:

- For use on gasketing pumps, oil pans, valve covers, gear boxes, compressors, etc.
- Seals windows, pipe joints and parts
- Bonds gaskets, appliance parts, sign letters
- Caulks joints, duct work, equipment housings

NOTE: Do not use in direct contact with fuel oil, gasoline, acid or caustic materials. Not for use on head gaskets or carburetor base.



Adhesives and Sealants



10.3 oz. Cartridges

RTV Gasket Maker/Sealer (Tube) (Tough silicone adhesive in a caulking gun cartridge)

Part #74542 – White
Part #74548 – Black
Part #74543 – Blue
Part #74541 – Clear

The ultimate gasket maker and sealer in a caulking gun cartridge.

Ideal for use wherever a strong, permanently elastic weatherproof adhesive sealant is needed. This product has excellent adhesion characteristics, high chemical resistance and will not sag or shrink from severe temperature extremes. As an instant gasket maker, this product replaces a wide range of cork, paper, asbestos, felt and metal gaskets. Reduces inventory – eliminates need to stock conventional gaskets. Reduces downtime – gets equipment back in operation fast. (Use with P/N 8253 Caulking Gun).

Features:

- 100% silicone rubber
- Permanently flexible
- Withstands temperatures -85°F to 450°F (-51°C to 232°C)
- Adheres to most surfaces
- Insulates
- For interior and exterior use

Applications:

- Use for sealing cracks in machinery, heating and ventilating duct work, plumbing fixtures, electrical connections, low pressure water and drain pipes.
- Bonds nameplates, machinery flanges, glass, signs and electrical insulation.
- Ideal for caulking windows, doors, walls, ceiling cracks and crevices

RTV Gasket Maker/Sealer (Hi-Temp Red Tube)

Part #74544 – 10.3 oz.

(High temp resistant, tough silicone adhesive in a caulking gun cartridge)

The ultimate gasket maker and sealer in a caulking gun cartridge. Ideal for use wherever a strong, permanently elastic weatherproof adhesive sealant is needed. This product has excellent adhesion characteristics, high chemical resistance and will not sag or shrink from severe temperature extremes. It can be used in a wide temperature range of -85°F to 600°F (500°F continuous). As an instant gasket maker, this product replaces a wide range of cork, paper, asbestos, felt and metal gaskets. Reduces inventory – eliminates need to stock conventional gaskets. Reduces downtime – gets equipment back in operation fast. (Use with P/N 8253 Caulking Gun).

Features:

- 100% silicone rubber
- Permanently flexible
- Withstands temperatures -85°F to 600°F (-51°C to 315°C)
- Adheres to most surfaces
- Insulates
- For interior and exterior use

Applications:

- Use for sealing cracks in machinery, heating and ventilating duct work, plumbing fixtures, electrical connections, low pressure water and drain pipes.
- Bonds nameplates, machinery flanges, glass, signs and electrical insulation.
- Ideal for caulking windows, doors, walls, ceiling cracks and crevices



Adhesives and Sealants



Rapid Seal

Part #74572 – Black / 18 oz.

(Rubberized Sealant – Petroleum Asphalt Resin)

Rapid Seal rubberized sealant seals leaks in gutters, flashings, roofs, and skylights. It is excellent as sealer after pruning trees, and also can be used as a sealant on pails, planters, and trash cans.

Features

- Tough
- Flexible Elastic Barrier
- Temporary or Permanent
- Works On a Variety of Surfaces
- Seals Out Moisture
- Fast Dry
- Can Be Top Coated
- Deadens Sound
- Resists Temperature Extremes
- Resists Rust, Road Salts, Alkali and Acids

Applications

- Skylights
- Flashings
- Air Vents
- Gutters
- Antenna Installations
- Small Cracks / Holes in Driveways
- Tree Shrub Pruning



Seal-It

Part #74573 – Black / 15 oz.

Part #74578 – White / 15 oz.

Part #74574 – Clear / 15 oz.

Part #74579 – Silver / 15 oz.

(Thermoplastic Elastomer Resin)

A unique spray product that leaves a firm coating which stays flexible. Will not sag or drip. The coating is impervious to water. The film will not freeze or crack in cold, is abrasion resistant and won't peel.

Economical, quick, and easy to use. Seals out rust and corrosion.

Features

- Unique Spray Product
- Leaves a Flexible Firm Coating
- Will Not Sag or Drip
- Impervious to Water
- Will Not Freeze or Crack in Cold
- Abrasion Resistant
- Does Not Peel
- Economical
- Quick and Easy
- Seals Out Rust and Corrosion

Applications

- Flashings / Skylights
- Windows / Doors
- Air vents
- Concrete
- PVC
- Gutters
- Shingles / Siding
- Semi Trailers
- Roofs on Campers



Insulating Expandable Foam Sealant

Part #74575 – 12 oz.

(A unique one part urethane foam which expands as it dries and solidifies)

Sprays as a liquid then expands and cures to a durable semi-rigid closed cell foam insulation. Each can dispenses over 800 linear feet of product when sprayed in a 3/8" cured bead. Great for sealing headers, outlets, door frames, outside faucets, and around air vents. Fills cracks and plugs holes that caulk won't. Plug the entrance of insect or rodent holes. Seals out Radon Gas. Deadens sound when applied to sheet metal.

Features

- Forms a water-resistant, weather-resistant and airtight bond on masonry, wood, metal, glass, & most plastics
- Keeps pollutants out as well as noise
- Dries tack free in 10 minutes
- Cures completely in 8 to 24 hours
- Easy to use, conforms to any shape as it expands
- Foam expands 2 to 3 times in size

Applications

- Energy conservation
- Air Conditioning
- Ventilation Ducts
- Heating Ducts
- Plumbing
- Window A/C Units
- Spas
- Hot Tubs
- Boats
- RVs
- Electrical Equipment
- Appliances
- Refrigeration Units
- Carpentry
- Masonry
- Auto/Truck Doors



Adhesives and Sealants

Cooling System Sealant

Part #74557 – 11 oz.

(Seals leaks quickly and conveniently)



Cooling System Sealant quickly stops minor radiator leaks, seals hairline cracks in engine blocks and heads and stops seeping around gaskets and hoses. Contains ultra small refined organic fibers, an organic buffer to deter rust and corrosion, and a suspension thickener.

Features:

- Stops minor radiator leaks quickly
- Seals hairline cracks in the block or head
- Stops seeping around gaskets and hose connections

Applications:

- Automotive dealerships, independent automotive shops, service stations, automotive retailers, farm and construction equipment repair, school auto shops

Threadlocker

Part #74490 – 0.338 fl. oz.

Part #74513 – 1.20 fl. oz.

(Strong, temporary lock for threaded fasteners)

This medium-strength, general purpose thread locking compound is ideal for all nut and bolt applications and eliminates self-loosening. It is suitable for temperatures up to 300°F, prevents threads from rusting and is removable with hand tools.

Features:

- Covers all threadlocking applications
- "Capillary action" gap fill – prevents movement of screw threads and eliminates self-loosening
- Anti-corrosion formulas prevent rusting of thread
- Fast cure without cracking or shrinking – enables quick assembly with minimum downtime
- Easy application – no mixing required
- Authorized by USDA for use in federally inspected meat and poultry plants
- Saves time, money, labor and mess

TECHNICAL DATA:

Gap Fill	.005"
Viscosity cP	1200/5000 Thixotropic
Torque in. lbs. (Break/Prevail)	80/50
Temperature Range	-65°F to 300°F (-54°C to 149°C)
Cure Speed (Fixture/Full)	20 min. / 24 hours

Applications:

- Can be used with all metals, glass, ceramics and many thermoset plastics

Threadlocker Gels

Part #74567 10gm Medium Strength Blue

Part #74568 10gm High Strength Red

(Formulated to provide "liquid reliability")

The gel twist threadlockers will not drip or run like traditional liquid threadlockers and is easily portable. Threadlocker gels stay on the part which reduces waste and makes it great for use in vertical applications. No more liquid drips or solid stick globs to deal with. No more mess to clean or costly waste to worry about. The extended nozzle allows for easy application in "hard-to-reach" locations.

Features:

- Locks and seals while preventing parts from loosening due to vibration
- Protects threads from corrosion
- No drips, runs, spills or leaks
- Patent-pending formulation & pin-point applicator
- Gel stays where you want it . . . on the part
- Applies clean and package stays clean
- Great for "hard-to-reach" and vertical applications
- Easily portable
- No mess and no waste – time and cost savings!

Applications:

All-Purpose Medium Strength Blue – Ideal for all nut and bolt applications 1/4" to 1" (6mm to 25mm). Great for hard-to-reach and vertical applications. Removable with hand tools for easy disassembly.

High Strength Red – Ideal for heavy-duty applications 3/8" to 1" (10mm to 25mm) and greater. Well suited for permanently locking studs. Requires heat or special tools for removal.

Adhesives and Sealants



Stud Lock & Bearing Mount

Part #74491 – 0.338 fl. oz.

Part #74515 – 1.20 fl. oz.

(High temperature resistant adhesive for locking studs and bearings)

A very high-strength adhesive for locking and sealing all fasteners up to 1" diameter and bearings. Ideal where high viscosity, shear strength and rapid cure speed are necessary. It is also ideal for tamper proofing where a difficult removal is desired. Stud Lock and Bearing Mount is suitable for temperatures up to 300°F, prevents rusting of threads and is removable with heat and hand tools.

Features:

- Covers all threadlocking applications
- Extremely versatile – can be used with all metals, glass, ceramics and many thermoset plastics
- "Capillary action" gap fill – prevents movement of screw threads and eliminates self-loosening
- Anti-corrosion formulas prevent rusting of thread
- Fast cure without cracking or shrinking – enables quick assembly with minimum downtime
- Easy application – no mixing required
- Authorized by USDA for use in federally inspected meat and poultry plants
- Saves time, money, labor and mess

TECHNICAL DATA:

Gap Fill	.007"
Viscosity cP	500
Torque in. lbs. (Break/Prevail)	160/320
Temperature Range	-65°F to 300°F (-54°C to 149°C)
Cure Speed (Fixture/Full)	20 min. / 24 hours

Applications:

- Can be used with all metals, glass, ceramics and many thermoset plastics

Thread Sealant Hydraulic/Pneumatic

Part #74524

1.69 fl. oz.

(Seals and locks hydraulic and pneumatic fittings)

Specially formulated for both hydraulic and pneumatic systems. Designed to seal and lock hydraulic and pneumatic fittings, servomechanisms and fine-filtration systems. It contains no fillers and will not foul valves or fluid filtering systems. It is suitable for temperatures up to 300°F and rated for sealing pressures to 10,000 psi.

Features:

- Medium strength for high pressure fluid power systems
- "Capillary action" gap fill – prevents movement of threads and eliminates self-loosening
- Fast cure without cracking or shrinking – enables quick assembly with minimum downtime
- Easy application – no mixing required
- Saves time, money, labor and mess

TECHNICAL DATA:

Viscosity cP	14,000
Breakaway Torque N.m. (lb./in.)	2 to 3 (8 to 24)
Temperature	-65°F to 300°F
Range	(-54°C to 149°C)
Cure Speed (Fixture/Full)	20 min. / 24 hours

**For more information,
see Technical Bulletin #30.022**

Applications:

- Hydraulic and pneumatic fittings, servomechanisms and fine-filtration systems

NOTE: Not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.



Adhesives and Sealants



Loctite® Thread Treatment Sticks (Solid performance in a semi-solid stick formula)

Part #17931
5-Piece Box Set

- 248 Medium Strength Threadlocker
- 268 High Strength Threadlocker
- PST® 561 Thread Sealant
- C5-A® Copper Anti-Seize
- Silver Grade Anti-Seize

These patented new stick products offer great flexibility for tough applications, especially overhead, under or around machinery and on components that cannot be moved. They're compact, making them easy to carry from job to job and easy to store in a toolbox, tool belt or pocket. They prevent rust and corrosion on various fastener sizes, easing disassembly and reducing inventory carrying costs. The semi-solid formula also means they won't spill or leak.

Features:

- Convenient – small enough to be "pocket friendly"
- No leaks, drips or spills
- Keeps toolboxes, workbenches and hands clean
- Fast and easy to apply
- Solid formula – great for overhead use
- Functional for a full range of uses
- Color-coded caps for easy application identification

Applications:

- For threadlocking – completely fill the root of the threads at the area of engagement
- For thread sealing – 360° coverage is recommended
- Advance stick only as deep as the threads you are applying to



248 Medium Strength Threadlocker Stick – Blue

Features:

- Eliminates loosening from vibration, shock and thermal expansion
- More reliable and cost effective than conventional mechanical fasteners
- Prevents rust and corrosion while sealing and protecting threads
- Removable with hand tools

Part #74561
0.67 oz. / 19 g

Applications:

- Machine tools and presses • Pumps and compressors • Mounting bolts • Gear boxes



268 High Strength Threadlocker Stick – Red

Features:

- Eliminates loosening from vibration, shock and thermal expansion
- More reliable and cost effective than conventional mechanical fasteners
- Prevents rust and corrosion while sealing and protecting threads
- Requires localized heat and hand tools for removal

Part #74563
0.67 oz. / 19 g

Applications:

- Heavy equipment • Suspension bolts • Motor, transmission and pump mounts
- Bearing cap bolts and studs • Formulated for heavy-duty applications



PST® 561 Thread Sealant Stick – White

Part #74564
0.67 oz. / 19 g

Features:

- Immediate low pressure sealing to 100 psi
- Controlled lubricity prevents galling
- Protects threaded areas from rust and corrosion
- Provides exceptional fluid compatibility and chemical resistance
- Will not contaminate or clog lines
- Eases disassembly

Applications:

- Seals all types of metal tapered threads and fittings to NPT specs
- Ideal for use in a broad range of industries including chemical processing, waste water treatment and automotive

Adhesives and Sealants



Loctite® QuickStix™ 548™ Gasket Eliminator® Flange Sealant

Part #74569
0.63 oz. / 18 g

Features:

- Designed for rigid flange assemblies
- Forms a flexible, solvent resistant seal
- Offers excellent oil resistance on rigid flange sealing
- Seals up to 300°F (149°C)
- Fills gaps to 0.010"
- Sealing time: >3 hours with or without primer

Applications:

- Formulated with excellent oil resistance for rigid flange sealing, for example on transmissions and cast metal housings
 - Ideal for on-the-spot repairs or when a conventional gasket is not available
 - For use on a variety of metal surfaces, including aluminum
-



Loctite® QuickStix™ 534™ Hi-Tack Gasket Dressing

Part #74570
0.67 oz. / 19 g

Features:

- Allows a precut gasket to be positioned holding it in place for assembly
- Holds aggressively yet still allows for repositioning of the cut gasket
- Seals up to 300°F (149°C)
- Offers added control and ease of use
- Sealing time: 5 minutes to set

Applications:

- Seals and bonds rubber, cork, paper, felt and metal gaskets
 - Ideal for use in applications requiring oil resistance
-



Loctite® QuickStix™ 668™ Retaining Compound, High Temperature

Part #74571
0.67 oz. / 19 g

Features:

- Bonds non-threaded, cylindrical metal assemblies with gaps up to 0.005" diameter
- Provides typical shear strength of 1,870 psi after 24 hours
- Prevents fretting and corrosion of metal assemblies up to 400°F (204°C)
- Set-up time / full strength: 30 minutes / 24 hours

Applications:

- Fills the inner voids in close-fitting press fits, keyways and splines
- Mounts bearings and bushings
- Makes press fits even stronger

Adhesives and Sealants



Teflon® Pipe Sealant

Part #74545 – 1/2 Pint

Part #74546 – 1 Pint

(Superior performance, pipe fitting sealant with brush applicator cap)

Superior grade, non-hardening, easy-to-apply, heavy duty pipe thread sealant. It is formulated to a thick past consistency and contains pure Teflon® powders and other PTFE resins to ensure a positive seal with less effort. Withstands pressure to 10,000 p.s.i. (liquid), 2000 p.s.i. (gas) and temperatures from -250°F to +500°F (-157°C to +260°C) and is non-toxic. It remains flexible to allow easy disassembly of connections.

Features:

- Prevents corrosion, seizing and galling
- Seals most threaded connections
- Resists chemicals, caustics and acids
- Non-staining and non-dripping

Applications:

- Designed for all pipe fitters, fabricators, plumbers and mechanical contractors.
- Recommended for pipe thread connections servicing chemicals, petroleum products, natural and LP gas, solvents, refrigerants, water, steam, caustics and acids.
- Can be used on all pipe and threaded connections with cast iron, malleable, brass, copper, stainless steel, PVC, CPVC, ABS and polypropylene.



CAUTION: Not for use on plastic pipe. May attack some thermoplastics. Airspace in tube keeps contents liquid.

Teflon® Pipe Sealant

Part #74511 – 1.20 fl. oz.

(Superior performance, food grade, paste pipe fitting sealant)

Specially formulated for rapid cure on stainless steel, carbon steel, monel and aluminum threads and fittings. Can be used on all metal fittings. High lubricity allows easier assembly on worn or damaged threads and prevents galling. Will not shred to clog or contaminate systems. Parts are easily disassembled with a pipe wrench. Suitable for use with hydrocarbons (aromatics), halocarbons [Freon®, perchloroethylene, trichloroethylene, organic acids (citric and acetic), alcohols, mild mineral acids and bases (diluted and cold)]*. USDA accepted for use in federally inspected meat and poultry plants.

Features:

- Superior lubrication
- Seals all stainless steel and other metal fittings
- Outperforms all pipe dopes and tapes
- Temperature range -65°F to 400°F (-54°C to 204°C)
- Pressure resistance to 10,000 psi

SPECIFICATIONS:

Color	White
Viscosity	550,000 cP
Pressure Resistance	10,000 psi
Seal to Operating Pressure	Stainless Steel 3 hours Carbon Steel 30 minutes
Temperature Range	-65°F to 400°F (-54°C to 204°C)

Applications:

- Designed for all pipe fitters, fabricators, plumbers and mechanical contractors.
- Recommended for pipe thread connections servicing chemicals, petroleum products, natural and LP gas, solvents, refrigerants, water, steam, caustics and acids.
- Can be used on all pipe and threaded connections with cast iron, malleable, brass, copper, stainless steel, PVC, CPVC, ABS and polypropylene.

*Not recommended for oxygen systems. Freon and Teflon are registered trademarks of DuPont.

Screw Grab®

P/N 74562 – 0.5 fl. oz. / 15 ml

ScrewGrab® is a friction gel that helps remove or tighten all types of fasteners - damaged or rusted screws, nuts, and bolts. A single dab creates a positive grip between metal surfaces (new tests have shown as high as 800%), that virtually eliminates tool wear and the stripping, rounding, or deforming of fasteners

Features:

- NOT a Glue
- Works Instantly
- Wipes CLEAN after use
- Non-corrosive
- Unlimited shelf-life
- ScrewGrab is approved for use on US Military jets, and by the United Kingdom RAAF

Applications:

- Stripped, rounded, deformed bolt heads/nuts
- Seized, rusted, or hard-to-reach spots
- Stops drill bits from turning in chuck
- Sloppy or mismatched sockets
- Removal of headlight frames, car moldings
- Apply to power driver for drywall or deck screws



Adhesives and Sealants

3M™ Fire Barrier Sealant, CP 25WB+

(Premium, Intumescent Latex-based Sealant)

P/N 74580, 10.1 fl oz Cartridge*

P/N 74581, 27 fl oz Cartridge

P/N 74582, 20 fl oz Sausage

P/N 74583, 5 Gallon Pail

P/N 74584, 2 Gallon Pail



3M CP Sealant 25WB+ offers outstanding fire performance plus a non-halogen formula.

- **Rating** – Provides up to 4 hour rating of UL systems tested
- **Water base** – easy cleanup, no special handling, routine disposal
- **Intumescent** – expands when heated to choke and seal around items consumed by fire
- **Endothermic** – releases chemically bound water to cool exposed surfaces
- **Fast-dry** – tack-free in approximately 10-15 minutes
- **Red color** for easy inspection



* Stock item (most widely used).
Please call for delivery on other 4 items.

3M™ Fire Barrier Moldable Putty

(Restores the Integrity of Fire-rated Building Construction)

Designed for use as a one-part,
100% solids intumescent firestop.

P/N 74585, Stick – 1.5" x 6"

P/N 74586, Pad – 4"x 8" x 1/8"



- Ideal for construction gaps, cable, insulated pipe, electrical conduit and metal pipe
- Designed to provide up to a 4-hour fire rating
- UL-classified for telecommunications applications (interduct, fiber optic and cables)
- Remains pliable and flexible
- Won't dry out or crumble
- Convenient pad and stick form
- Non-halogen formula
- Reenterable
- Adheres to all common building surfaces including metal and plastic electrical boxes
- Provides draft and cold smoke seal even before temperature increases
- Intumescent and expands to form a hard char – prevents the transmission of hot gases & fire
- Great for building maintenance applications



Adhesives and Sealants



Items are non-stock. Please allow 1 to 2 weeks for delivery (3M factory stock). For urgent requirements, please call.

3M™ Fire Barrier Foam FIP 1-Step (Foam-in-place Firestop)

P/N 74588, 12.85 fl oz*

P/N 74588N, Nozzle (2 pack)

*Includes 2 nozzles (P/N 74588N)

Finally, a UL Listed alternative to mineral wool, bricks and runny, ineffective foams.

- A smoke and firestopping foam for wall and floor penetrations.
 - Used in mechanical, electrical, data and plumbing applications.
 - Premium two-part, easy-to-handle formulation.
 - Expands during installation and bonds to concrete, metal, wood, plastic and cable jacketing.
- Dries to a flexible solid.

This Foam Won't Roam.

It's like no firestop foam you've used before — it works. It's not runny, so it stays in place and expands at a controlled and consistent pace. Installs in vertical and horizontal applications without running down the opening or sagging. Similar to many two-part epoxy sealants, but with just one step — saving you trips up and down the ladder.

Key Features:

- Firestop tested up to 2 hours in accordance with ASTM E 814 (UL 1479) and CAN/ULC S115.
- Meets the International Building Code for Passive Fire Protection.
- Expands up to 5X when dispensed. One cartridge FIP 1-Step equals up to 6 tubes 10.1 oz caulk.
- Intumescent. Expands in a fire.
- Expansive UL systems for blank openings, metal pipe, cables, cable trays, combos, insulated pipe.
- UL systems require no mineral wool.
- Remains pliable after installation for easy installation of new cables/conduit in existing opening.
- Excellent adhesion. Can be installed in wall or floor applications with no backing material.
- STC rating of 57 when tested in STC 57 rated wall assembly.
- Air leakage less than 1 CFM/Sq Ft.
- Shelf life is 12 months in original unopened containers from date of packaging.

Typical Applications:

- Conduit banks
- Cables
- Cable trays
- Combos
- Busways
- Metal pipes
- Plastic pipes
- Insulated pipes
- HVAC duct penetrations
- Blank openings in floors and walls



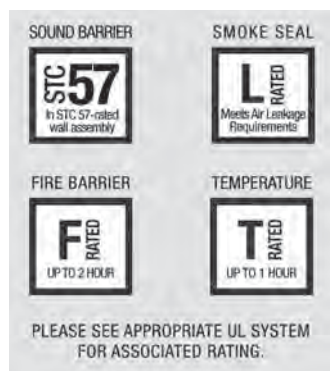
P/N 9572

HandyMax® HMS-G4C2
Manual Gun



P/N 9573

PowerMax® HPS-4C2
Battery-Powered Gun



**See FIP 1-Step
in action! Scan
the QR Code to
go to the video.**

IMPORTANT:

Products do not achieve ratings, systems do.
Consult your UL directory for specific information regarding your application.



Bulk Chemicals

Part #74240:
55 Gallon Drum

Part #74241:
30 Gallon Drum

Part #74243:
5 Gallon Pail

Part #74244:
1 Gallon Container
(Buy 4 x 1 Gal)

Aluminum Brite™

(Concentrated, deep cleaning metal cleaner)

A fast-acting, deep cleaning solution for removing dirt, oxide and carbon stains from aluminum, stainless steel, copper, magnesium and other similar metals. Cleans and brightens.

Features:

- Concentrated
- Deep cleaning and fast acting
- Easy to use – requiring no scrubbing, buffing or polishing
- Economical – saving time, money and labor

Applications:

- Truck Bodies • Wheels • Buses
- Aircraft • Equipment • Machinery

Instructions*:

Light Duty Application: Mix (1) part cleaner with up to (10) parts water

Heavy Duty Carbon Stains: Mix (1) part cleaner with (5) parts water

Part #74235:
55 Gallon Drum

Part #74236:
30 Gallon Drum

Part #74238:
5 Gallon Pail

Part #74239:
1 Gallon Container
(Buy 4 x 1 Gal)

Big Job™ Truck Wash

(Concentrated, water-based, biodegradable, manual or auto wash)

A highly concentrated liquid cleaning compound designed for autos, trucks, buses and planes where minimum surface agitation is required. It's easy to use manually or in automatic equipment, and it's economical.

Features:

- Super-concentrated
- Dissolves road film
- Biodegradable
- Manual or automatic washing

Applications:

- Autos • Trucks • Buses • Planes • Railroad Cars
- Vans • Trailers • Tractors • Box Cars

Instructions*:

Light Duty Application: Dilute (2-3) ounces per gallon of water

Heavy Duty Soils: Dilute (4-8) ounces per gallon of water

Automatic / Mechanical Washers: Dispense at a 1 to 50 dilution rate

Part #74250:
55 Gallon Drum

Part #74251:
30 Gallon Drum

Part #74253:
5 Gallon Pail

Part #74254:
1 Gallon Container
(Buy 4 x 1 Gal)

Citrus Grease Digester™

(Unclogs, degreases, deodorizes)

Revitalizes sluggish disposal systems and quickly reduces buildup of grease and slime in sewage treatment equipment without affecting bacterial activity. Effectively controls odor. Will not harm metal pipes. Eliminates heat generation. Nonacid, noncaustic and noncorrosive.

Features:

- Unclogs, deodorizes and degreases
- Extremely effective in drains, grease traps, septic systems, dry wells and cesspools
- Environmentally safe
- Natural citrus base

Applications:

- Sewage Treatment Plants • Landfills
- Waste Disposal Facilities
- Maintenance of Drains • Garbage Areas
- Refuse Trucks and Cans

**For more information,
see Technical Bulletin #30.028**

Instructions*:

Drain Cleaner: To open drains clogged by grease and slime, pour in 8 oz. (1/2 pint). Allow to stand for 1 hour. Flush with hot tap water. In garbage disposals, allow to stand 5-10 minutes. Flush with hot tap water. **CAUTION: Do not use in plastic pipes.**

Drain Grease Trap Maintenance: Pour in a solution of 8 oz. per gallon of water. Allow to stand 1 hour. Flush with hot tap water. **CAUTION: Do not use in plastic pipes.**

General Cleaning, Degreasing and Odor Control: Dilute (4) oz. to (1) gallon of warm water. **Not for use on synthetic or resilient tile floors.**

Sewage Plants, Septic Tanks and Drainfields: Add (1) quart to (1,000) gallons of capacity or dispense through a drip device as required for maximum odor control.

CAUTION: Contains powerful organic compounds and may damage some plastic or painted surfaces.

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74350:
55 Gallon Drum

Part #74353:
5 Gallon Pail

Clear View™ **

(Concentrated, biodegradable, glass and hard surface cleaner)

Provides deep cleaning power for all glass and hard surface applications. A special blend of detergents, drying accelerators and ammonia dissolve dirt, dust and fingerprints. Leaves a gleaming, streak-free shine. Safe for most surfaces. Will not leave oily or soapy film. Repels dirt, dust and fingerprints.

Features:

- Removes dirt, grease and fingerprints
- Fast-drying
- Non-streaking
- Non-abrasive

Applications:

- Glass • Mirror • Porcelain • Formica
- Stainless Steel • Aluminum • Chrome
- Tile • Painted Surfaces • Plastic

Instructions*:

Light Duty Application: Dilute with up to (2) parts water

Heavy Duty Soils: Use full strength

****Also available in "Ready-to-Use" pre-diluted formula (Part #74601).**

(Packaged in 32 oz. bottle with trigger sprayer).

Part #74340:
55 Gallon Drum

Part #74341:
30 Gallon Drum

Part #74343:
5 Gallon Pail

Part #74344:
1 Gallon Container
(Buy 4 x 1 Gal)

Coil and Filter Cleaner

(HVAC multi-purpose, coil and filter cleaner)

A non-caustic, non-acid cleaner designed to remove the build-up of dirt and grime on all HVAC and refrigeration coils and filters. Also works well as a filter adhesive, providing a viscous, tacky film to catch dirt, dust and pollen too small for retention by the filter.

Features:

- Cleans HVAC/refrigeration coils and filters
- No rinsing necessary
- Easy-to-use
- Non-flammable

Applications:

- Coils • Filters • Condensers
- Air Conditioning Systems
- Heating Units • Refrigeration Systems

Instructions*:

Light Duty Application: Dilute (1) part cleaner to (1-3) parts water

Permanent Type Filters: Dilute (1) part cleaner to (3) parts water and place filter in dip tank solution

As Filter Adhesive: Use full strength by spraying directly on the filter

Part #74245:
55 Gallon Drum

Part #74246:
30 Gallon Drum

Part #74248:
5 Gallon Pail

Part #74249:
1 Gallon Container
(Buy 4 x 1 Gal)

Diesel Fuel Additive **

(Injector cleaner, rust inhibitor, smoke reducer)

Cleans injectors, screens, fuel pumps and filters result in more even burning and easier starting. Improves combustion by its catalytic action, resulting in more power and greater mileage. Improves performance in all diesel engines and when used in diesel fuel storage tank, greater fuel stability is achieved.

Features:

- Increases mileage
- Reduces "smoking"
- Improves performance
- Extends fuel life
- Reduces downtime

Applications:

- Diesel Trucks / Buses
- Bulk Fuel Storage Tanks
- Engines • Fuel Tanks

****Also available in "Ready-to-Use" pre-diluted formula (Part #74604).**

(Packaged in 32 oz. bottle with trigger sprayer).

Instructions:

Combine (1) quart to (100) gallons of diesel fuel. Add directly to fuel. Give special attention to the crankcase oil in engines with heavy deposits of varnish, carbon or sludge. If large volumes of deposits are released quickly, change oil and filters to rid the engine of these deposits.

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74305:
55 Gallon Drum

Part #74306:
30 Gallon Drum

Part #74308:
5 Gallon Pail

Part #74309:
1 Gallon Container
(Buy 4 x 1 Gal)

Equipment Clean™

(Emulsifiable, solvent-based, engine/equipment cleaner/degreaser)

Unique, emulsifiable formulation instantly dissolves the toughest caked-on grease, dirt, oil and wax and washes off with water. Exceptionally versatile, cleaning everything from small parts, to engines, to concrete floors – and will not harm most painted surfaces. Easy to use and economical – can be diluted with common petroleum solvents.

Features:

- Cleans on contact
- Heavy duty degreasing power
- Dilutes with petroleum solvents
- Emulsifiable
- Leaves no residue

Applications:

- Equipment • Machinery • Engines • Small Parts
- Bearings • Wheels • Chassis • Running Gear
- Concrete Floors • Transmissions • Fork Lifts
- Fifth Wheels • Parts Cleaners

Instructions*:

Dilute with up to (8) parts kerosene, diesel fuel, mineral spirits or naphtha as per chart below.

Caution: If using with a pressure sprayer, Equipment Clean must be diluted with at least (8) parts solvent.

Insufficient dilution may cause spray hose to deteriorate and fail, causing possible injury or property damage.

Dilution Rates (1-Part Equipment Clean)

PARTS SOLVENT		PARTS SOLVENT	
Equipment / Machinery	4 - 6	Chassis	6 - 8
Engines – Normal	4 - 6	Running Gears	4
Engines – Heavy Grease	1 - 2	Cold Tank Degreaser	4
Small Parts / Bearings	4 - 6	Concrete Floors	3
Wheels	6 - 8	Wax Coatings	2

Part #74200:
55 Gallon Drum

Part #74201:
30 Gallon Drum

Part #74203:
5 Gallon Pail

Part #74204:
1 Gallon Container
(Buy 4 x 1 Gal)

4-Way Plus**

Part #74200-74204

(Multi-purpose lube and penetrant with high dielectric strength)

An outstanding effective rust preventive and water displacing compound for ferrous and non-ferrous substrate. The protective film left on the metal after evaporation of the solvent is ultra thin and highly protective against corrosive effects of the elements.

Features:

- Long lasting
- Removable coating
- Corrosion prevention
- Protects from elements
- Water displacement
- Phosphate free

Applications:

- Rust preventative for metal parts in machine shops
- Tools • Equipment • Tractors • Bicycles
- Cranes • Vehicles • Electrical Systems
- Generators • Alternators • Starters

Instructions:

For Small Parts: Immerse parts into the compound for full strength for a few seconds. Remove and allow to air dry until all the solvent is evaporated.

For Equipment: Brush, spray or simply apply with a cloth dampened with the chemicals. Allow to dry.

Removing: Use mineral spirits or similar solvent or alkaline cleaner (where applicable) to wash down parts.

****Also available in "Ready-to-Use" pre-diluted formula (Part #74603).
(Packaged in a 32 oz. bottle with trigger sprayer).**

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74345:
55 Gallon Drum

Part #74346:
30 Gallon Drum

Part #74348:
5 Gallon Pail

Part #74349:
1 Gallon Container
(Buy 4 x 1 Gal)

Floor Glo™

(Transparent, high gloss durable floor finish)

A durable, long-lasting, high gloss floor finish that withstands the toughest traffic conditions. Its transparent sheen will not darken or yellow and provides waterproof protection against damp mopping and spray buffing. One gallon covers 1,500 to 2,000 square feet.

Features:

- Tough thermoplastic coating
- Scuff resistant
- Superb durability
- Withstands high traffic and repeated detergent washings

Applications:

- All Types of Resilient Flooring
- Asphalt • Tile • Vinyl • Rubber
- Terrazzo • Linoleum • Masonry
- Varnished, Painted or Sealed Wood

Instructions:

Preparation: Strip other polishes from the floor using an abrasive pad and **Red Lion Super Stripper** solution. Pick up with a wet vac, mop or autoscrubber. Rinse the floor thoroughly (at least twice) with clean water. Repeat the operation if all polish is not removed. Allow floor to dry.

Application: Using a clean synthetic mop, apply 3 coats of **Floor Glo** allowing a minimum of 30 minutes between coats. Additional coats of finish may be applied, provided adequate dry time (at least one hour) is allowed between coats. Temperature, humidity and air movement affect curing time.

Burnishing: The thermoplastic properties of the floor finish are enhanced by the heat of high speed burnishing equipment (1500-2000 RPM) producing the desirable "ultra wet look." Burnish with any high speed machine using procedure as outline by the machine manufacturer in conjunction with the proper high speed burnishing pad.

Maintenance: The floor may be maintained by damp mopping with a free rinsing neutral detergent followed by high speed burnishing or high speed spray buffing with a suitable spray buffing compound or mop-on restorer. Additional coat may be applied after thoroughly scrubbing floors. If stripping becomes necessary, use **Red Lion Super Stripper**. If floor is exposed to heavy traffic of sand or other abrasive soils, frequent dust mopping is recommended. **Do not pour unused finish back into original container or contaminate with other finishes.**

Part #74215:
55 Gallon Drum

Part #74216:
30 Gallon Drum

Part #74218:
5 Gallon Pail

Part #74219:
1 Gallon Container
(Buy 4 x 1 Gal)

H.D. Citrus Cleaner/Degreaser™ **

(Concentrated, citrus-based, biodegradable cleaner/degreaser)

A highly concentrated cleaner and degreaser. This powerful water soluble cleaner derives its strength from d-limonene, a natural citrus solvent. Instantly dissolves greasy, oil soils from virtually any surface and it deodorizes while it cleans. Extremely concentrated – can be diluted up to 100 to 1.

Features:

- Highly concentrated
- Extremely powerful
- Natural citrus extract
- Instantly dissolves greasy, oil soils
- Biodegradable

Applications:

- Porcelain • Formica • Tiles • Enamel Surfaces
- Tools • Equipment • Oil and Tar Stains
- Vinyl Tops • Floor Mats • Tubs • Sinks
- Appliances • Printing Presses • White Wall Tiles

Instructions:

Spray with hand sprayer or low or high pressure equipment, Steam, mop, brush or wipe on any water safe surface. Wipe or rinse off with clear water.

Lightly Soiled: 1 to 4 oz. per gallon

Medium Soiled: 4 to 10 oz. per gallon

****Also available in "Ready-to-Use" pre-diluted formula (Part #74600).
(Packaged in a 32 oz. bottle with trigger sprayer).**

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74280:
55 Gallon Drum

Part #74281:
30 Gallon Drum

Part #74283:
5 Gallon Pail

Part #74284:
1 Gallon Container
(Buy 4 x 1 Gal)

Lift-Out™ Lift Station Degreaser

(Water insoluble, grease dissolving, biodegradable)

This powerful and efficient emulsifying agent liquifies animal fats and garbage grease in lift stations, greasetraps and drain lines for maximum performance. It maintains facilities in top operating condition while eliminating odors, overflowing and unsanitary conditions resulting from poor draining caused by slime and grease. Harmless to most plumbing.

Features:

- Liquifies
- Deodorizes
- Degreases
- Extremely effective in drains, grease traps, septic systems, dry wells and cesspools

Applications:

- Lift Stations • Sewage Treatment Plants
- Landfills • Waste Disposal Facilities
- Drain Maintenance
- Refuse Trucks and Cans
- Garbage Areas

Instructions*:

Lift Stations: To add a one inch cap on liftstation, pour in four times the diameter (in feet) as the number of gallons. For rectangular lift stations, multiply the length times the width (in feet) by .625. Use this as the number of gallons.

Drain Cleaner: To open drains clogged by grease and slime, pour in 8 oz. (1/2 pint). Allow to stand for 1 hour. Flush with hot tap water. In garbage disposals, allow to stand 5-10 minutes. Flush with hot tap water. **Do not use in plastic pipes.**

Drain and Grease Trap Maintenance: Pour in a solution of 8 oz. per gallon of water. Allow to stand 1 hour. Flush with hot tap water.

Sewage Plants, Septic Tanks, Drainfields, etc.: Add (1) quart of product to (1000) gallons of capacity or dispense through a drip device as required for maximum odor control.

Part #74285:
55 Gallon Drum

Part #74286:
30 Gallon Drum

Part #74288:
5 Gallon Pail

Part #74289:
1 Gallon Container
(Buy 4 x 1 Gal)

N-Zyme™ Drain Maintenance

(Liquid waste digester)

This liquid waste digester prevents blocked drains by biologically degrading organic wastes, grease, fats, oil cellulose, protein and starch residues. Contains no acids or caustics to damage drains or interfere with septic tanks, ponds and lagoons. The bacterial culture establishes colonies which remain in the system and reactivate each time waste is introduced.

Features:

- Non-toxic
- Non-corrosive
- No fumes
- Extremely concentrated
- Excellent preventative maintenance tool

Applications:

- Sinks • Drains • Grease Traps
- Interceptors • Drain Fields
- Septic Tanks • Sewers

Instructions:

Stir before initial use. For best results, treat waste systems at night or during the lowest use period. Just before adding, flush sinks, drains or other areas of entry with warm water to remove any residue, disinfectants, bleach or other harsh chemicals that may harm bacterial cultures.

Grease Traps: When possible, clean out grease trap prior to beginning of treatment. Add 1 to 3 oz. per cubic foot of trap capacity. Use drain close to trap. To maintain, add 2 to 3 oz. each night.

Drain Lines: Use 1 to 3 oz. per drain, diluted with warm water. Pour into sinks, floor drains, garbage disposals, toilets and urinals once a week.

Septic Tanks, Dump Stations: For slow systems, use 1 pint (16 oz.) for each 500 gallons of capacity. Mix into 2 gallons of warm water and flush through toilet furthest from tank. To maintain, apply 1 quart per month or as needed.

Sludge Lagoons and Ponds: During first 3 to 7 days, add 1/2 gallon daily for each million gallons of wastewater. To maintain, add 1 quart weekly at inlet ditch.

Setting Tanks: Add 1 quart for each 1,000 cu. ft. (8,000 gals.) capacity. Add weekly for 4 weeks. To maintain, add 1 quart per 1,000 cu. ft. per month.

Recreational Vehicles, Boats, Portable Toilets: Add 8 oz. for each 5 gallons of holding tank capacity.

NOTE: Disinfectants, chlorinated products and extra-hot water (over 160°F) will kill off some of the live bacteria. Always store below 120°F. Avoid storing in car trunk in summer time.

Bulk Chemicals

Part #74360:
55 Gallon Drum

Part #74361:
30 Gallon Drum

Part #74363:
5 Gallon Pail

Part #74364:
1 Gallon Container
(Buy 4 x 1 Gal)

Odor Eliminator™**

(Encapsulates & destroys toughest odors, biodegradable, lemon-lime scent)

A concentrated product, scientifically formulated to eliminate any and all odors safely and effectively. Odor Eliminator does not "mask" odors, it neutralizes them by chemically bonding with the odor carrying molecules and encapsulating them, thereby stopping odor formation. It is non-flammable, non-staining and non-corrosive.

Features:

- Chemically "neutralizes" and eliminates odors
- Does not mask odors
- Use as an air or surface spray
- Refreshing lemon scent
- Non-flammable

Applications:

All Airborne Odors in:

- Rendering Plants • Slaughter Houses • Zoos • Kennels • Public Rest Rooms
- Transportation Industry • Locker Rooms • Garbage Areas • Sewage Areas
- Smoke Filled Rooms • Mortuaries • Hotels • Air Conditioning Filters

Instructions:

Use full strength or dilute with water as an air or surface spray.

****Also available in "Ready-to-Use" pre-diluted formula (Part #74602).
(Packaged in a 32 oz. bottle with trigger sprayer).**

Part #74270:
55 Gallon Drum

Part #74271:
30 Gallon Drum

Part #74273:
5 Gallon Pail

Part #74274:
1 Gallon Container
(Buy 4 x 1 Gal)

Odor Eliminator SC™

(Super concentrated Odor Eliminator formula)

A super-concentrated product, scientifically formulated to eliminate any and all odors safely and effectively. It does not "mask" odors, it neutralizes them by chemically bonding with the odor carrying molecules and encapsulating them, thereby stopping the odor formation. It's non-flammable, non-staining and non-corrosive.

Features:

- Super-concentrated formula
- Chemically "neutralizes" and eliminates odors
- Does not mask odors
- Use as an air or surface spray
- Refreshing lemon scent
- Non-flammable

Applications:

All Airborne Odors in:

- Rendering Plants • Slaughter Houses • Zoos • Kennels • Public Rest Rooms
- Transportation Industry • Locker Rooms • Garbage Areas • Sewage Areas
- Smoke Filled Rooms • Mortuaries • Hotels • Air Conditioning Filters

Instructions:

Dilute (1) part Odor Eliminator SC to (3) parts water. This provides concentration equal to standard Odor Eliminator product. May be diluted further for lighter duty applications.

*NOTE: Contains powerful organic compounds and may damage some plastic or painted surfaces. Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74230 & 74225:
55 Gallon Drum

Part #74231 & 74226:
30 Gallon Drum

Part #74233 & 74228:
5 Gallon Pail

Part #74234 & 74229:
1 Gallon Container
(Buy 4 x 1 Gal)

Pleasant Scent™ (Chemically destroys toughest odors)

A highly refined blend of chemicals designed to destroy odors of putrefaction, defecation, regurgitation, urination and many other malodors. It is easy to apply with a trigger sprayer or fogging unit and is biodegradable, phosphate free and nonflammable.

Features:

- Chemically destroys the toughest malodors
- Does not mask odors
- Easy to use as an air or surface spray
- Biodegradable

Applications:

- Hospitals / Laboratories • Mortuaries • Motels • Factories
- Rest Rooms • Kennels • Airplanes • Etc.

Instructions:

Use full strength or dilute with water. Dilutes up to 10:1.

Part #74230-74234 – Lemon-Lime Scent
Part #74225-74229 – Green Apple Scent

Part #74275:
55 Gallon Drum

Part #74276:
30 Gallon Drum

Part #74278:
5 Gallon Pail

Part #74279:
1 Gallon Container
(Buy 4 x 1 Gal)

Safety Solv 2000™

(Non-chlorinated, fast acting, high flash point cleaner/degreaser)

A fast acting, non-corrosive cleaning and degreasing solvent for removing dirt, grease, oil, lubricants, ink, adhesive, tar, soot, wax and many other contaminants from mechanical and electrical equipment. It has a flash point of 142°F and a mild solvent odor.

Features:

- Superior degreasing properties
- Equipment / machinery
- Fast-acting (142°F)
- Non-corrosive
- High flash point
- Mild odor

Applications:

- Metal • Plastics • Fiberglass • Motors • Pressure Tanks • Rubber • Molds
- Paint Masks • Printing Equipment • Meters • Pre-Welding Applications

Instructions:

General Cleaning/Degreasing: Apply directly to material using brush, dip, spray or wiping action. Wipe dry or blow with compressed air.

Motors: Turn power off and remove all loose material, lint and dust by air blowing motor. Replace all worn and arcing brushes. Resurface commutator if arcing continues. Spray into motor with a heavy stream. Blow motor with air until dry. Relubricate before using.

Disassembled Equipment: Immerse parts in solvent for 5-10 minutes. Dipping, ultrasonics or any method of agitation will hasten cleaning action. Wipe dry or blow dry with compressed air upon removal.

Part #74257:
55 Gallon Drum

Part #74256:
30 Gallon Drum

Brake Clean

(Contains no chlorinated solvents, hexane free cleaner/degreaser)

Specially formulated to work quickly and effectively to remove brake fluid, grease, dirt and other contaminants from brake linings, disc brake pads, brake drums, springs, wheel cylinders, etc. Stops disc brake squeal, leaves no residue and is an excellent cleaner for other dirty, greasy parts.

Features:

- Cleans and degreases all brake parts and instantly removes dirt, grease and brake fluid
- Improves brake performance

Applications:

- For use on brake linings, disc brake pads, brake drums, springs, wheel cylinders and other brake parts

Instructions:

Spray brake parts liberally and allow to run off. Allow to air dry or use a soft wipe. Repeat if necessary. Do not spray on hot or warm surfaces. Protect rubber and plastic parts from spray.

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74310:
55 Gallon Drum

Part #74311:
30 Gallon Drum

Part #74313:
5 Gallon Pail

Part #74314:
1 Gallon Container
(Buy 4 x 1 Gal)

Steam Clean™

(All purpose, deep cleaning, free-rinsing)

A special formulation of surfactants and cleaners provide the most effective and versatile steam cleaning product available. Use for cleaning and degreasing painted surfaces, metals, concrete, chrome, rubber and glass. Steam solubilizes, emulsifies and penetrates grease, dirt and oil, so it can be easily flushed off the surface being cleaned. This special formula prevents clogging of coils and is very effective on aluminum, steel and other metal surfaces. Leaves no scale or residue.

Features:

- Deep cleaning formula
- Free rinsing
- Controlled foam
- Biodegradable
- Non-flammable

Applications:

- Engines • Walls • Floors
- Drive Line Components
- Chains • Cables

Instructions:

Always follow the manufacturer's instructions for the steam cleaning equipment. For steam cleaners that feed directly into the coils, use (1) quart of Steam Clean per (20) gallons of water. Steam cleaners that premix cleaner with water before going through the coils use (1) gallon of Steam Clean for (20) gallons of water.

Proper flow is determined by the sudsing action at the nozzle. If too much cleaner is added to the solution, adjust the flow to the point where sudsing just begins at the spray nozzle. Although normally used in steam cleaning machines, Steam Clean may also be used as a soak solution. Use 6-10 oz. per gallon of warm or hot water.

NOTE: Steam Clean may be used on glass and aluminum. However, it should not be allowed to dry directly on these surfaces. Rinse thoroughly with clear water immediately after cleaning.

Steam Clean HD™

(All purpose, deep cleaning, free-rinsing)

An extremely powerful steam cleaner, containing special cleaners and surfactants that plate out on the surface to remove dirt and grease. Powerful enough to clean 5th wheels. A concentrated emulsifier dissolves greasy, oily and waxy soils and deodorizes as it cleans. Through emulsification, soils are removed from surfaces and suspended through the cleaning solution. Redeposition of soils is minimized, enabling quick and complete rinsing. For use on all surfaces.

Features:

- Extremely powerful formula
- Free rinsing
- Controlled foam
- Biodegradable
- Non-flammable

Applications:

- Engines • Walls • Floors
- Drive Line Components
- Chains • Cables

Instructions:

This is a concentrate and must be diluted prior to use. Dilution ratios will vary depending upon the degree and nature of the soil and should be adjusted as experience dictates. For trucks, buses or airplanes, use (1) part concentrate (20-40) parts water. The solution may be applied by brushing, wiping or spraying. After cleaning, rinse thoroughly with clear water. Do not allow solution to dry on surface.

NOTE: Steam Clean HD should not be used on aluminum, glass or painted surfaces. All surfaces should be rinsed immediately after use with clear water.

**NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.*

Bulk Chemicals

Part #74300:
55 Gallon Drum

Part #74301:
30 Gallon Drum

Part #74303:
5 Gallon Pail

Part #74304:
1 Gallon Container
(Buy 4 x 1 Gal)

Super Clean™

(Highly alkaline, water soluble concentrated solvent)

It's unique formulation provides the ultimate versatility in an industrial cleaner. Use on metal, plastic, rubber, concrete, iron, steel and aluminum (except anodized aluminum). Emulsifies dirt, grease, oil, wax, creosote and many other stubborn stains. There's no need for scrubbing because Super Clean's emulsifying action floats dirt away. Just rinse with clear water to leave a bright clean surface with no oily residue.

Features:

- Heavy duty degreaser
- Versatile • Economical
- Free-rinsing • Non-flammable
- Biodegradable

Applications:

- Machinery • Equipment
- Concrete • Walls • Floors
- Filters • Ventilator Screens
- Any surface where a fireproof cleaner is needed

Instructions*:

Dilute with up to (30) parts water as per dilution chart.

Dilution Rates (1-Part Super Clean)

PARTS

WATER

Machinery, Equipment, Metal Parts, Concrete Floors	5
General Cleaning of Floors, Asphalt, Linoleum, Vinyl, Composition, Wood, Terrazzo, etc.	20
General Light Cleaning of Walls, Woodwork, etc.	30
Removing Oil, Grease, Carbon or Common Soil in General Cleaning, Hoods, Flues, Vents, etc.....	5
Splash Boards: Aluminum, Chrome, Stainless.....	6
Conveyors, Stoves, Stove Parts, Ovens, Grills, Fat Fryers.....	2
Walls.....	12
Floors, Floor Boards.....	8

Caution: Super Clean contains solvents which may cause etching of glass and discoloration of anodized aluminum. In case of contact, rinse immediately with water.

Part #74220PF:
55 Gallon Drum

Part #74221PF:
30 Gallon Drum

Part #74223PF:
5 Gallon Pail

Part #74224PF:
1 Gallon Can

Super Gloss™ Wash-N-Wax

(High-foaming, concentrated, water-based, biodegradable, leaves glossy shine)

A super-concentrated, high-foaming, biodegradable detergent specially formulated for auto, truck, van, motor home and boat washing. It dissolves dirt and grime, leaving a superior high gloss, spotless appearance. The powerful emulsifiers of Super-Gloss Wash-N-Wax actually lift embedded dirt, grime, bug and tar stains off surfaces. The high-foaming action keeps it in suspension for easy rinsing.

Features:

- Highly concentrated
- Leaves a high gloss finish
- Will not streak or spot
- Biodegradable

Applications:

- Autos • Trucks • Vans
- Motor Homes • Boats

Instructions:

Pour (1 to 3) oz. of Super Gloss in a bucket for each gallon of warm water.

Part #74355:
55 Gallon Drum

Part #74356:
30 Gallon Drum

Part #74358:
5 Gallon Pail

Part #74359:
1 Gallon Container
(Buy 4 x 1)

Super Stripper™

(Concentrated, non-ammoniated floor finish remover)

This concentrated formula safely and easily removes all types of waxes, finishes and soils. Special wetting agents help to emulsify dirt for easy rinsing. Extremely effective on multiple coats of waxes, polymers and acrylic coatings on all types of floors.

Features:

- Concentrated
- Fast-acting
- Removes all types of waxes, finishes and soils

Applications:

- Tile • Terrazzo • Concrete • Marble • Asphalt
- Vinyl • Linoleum • Composition

Instructions*:

Mix (1) part Super Stripper to (15) parts water. If wax or finish is especially heavy or old, increase recommended amount to fit the type and amount of soil to be removed.

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals

Part #74320:
55 Gallon Drum

Part #74321:
30 Gallon Drum

Part #74323:
5 Gallon Pail

Part #74324:
1 Gallon Container
(Buy 4 x 1 Gal)

Synthetic / Soluble Cutting Fluid (Concentrated water soluble lubricant)

A concentrated synthetic coolant for metal working applications. Can be used "as is" or diluted with up to 40 parts water.

Features:

- Clear concentrated water soluble lubricant
- Prevents corrosion
- Use for machining, cutting and grinding of ferrous and non-ferrous metals

Applications:

Effective and suitable for use in working:

- Carbon Steel • Stainless Steel • Vanadium • Chrome
- Molybdenum • Nitralloy • Titanium • Bronze • Copper
- Boron Carbide and many other specialty alloys

Instructions*:

May be used with or without dilution depending upon the job requirements. Dilutes clear in all proportions for complete job visibility. It is suggested that more difficult job trials be made with fluid full strength. If the results are satisfactory, further dilution up to 40 parts water to 1 part product can be tested to determine the most economical dilution.

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Part #74335:
55 Gallon Drum

Part #74336:
30 Gallon Drum

Part #74338:
5 Gallon Pail

Part #74339:
1 Gallon Container
(Buy 4 x 1 Gal)

X-tra Clean NB™ (Concentrated, all purpose water soluble cleaner/degreaser)

This highly concentrated non-butyl formulation of high grade synthetic surfactants yields the ultimate in cleaning performance. It is free rinsing and works equally well in hot, cold, hard or soft waters. It penetrates, loosens and emulsifies all types of oil, grease and soil – leaving an exceptionally clean surface. Safe on most every water washable surface.

Features:

- Highly concentrated • Heavy duty • Water soluble • Non-flammable • Biodegradable

Applications:

- Basins • Bilges • Concrete • Dies • Equipment • Fans • Floors • Hoods • Machinery
- Metal • Plastic • Porcelain • Rubber • Sinks • Steel • Sumps • Terrazzo • Toilets
- Tooling • Vinyl Upholstery • Vitreous Ware • Walls • Wood

Instructions*:

Apply manually or with sprayer. Allow to work for a few minutes, then wipe, mop or rinse off. See dilution chart.

Steam Cleaning: Dilute (4-14) oz. cleaner with (1) gallon of water. Adjust solution according to desired results.

Dilution Rates (1-Part X-tra Clean NB)

	PARTS
WATER	
Degreasing	10
Heavy General Cleaning	20
Light General Cleaning	60
Deodorizing	60
Wax and Finish	10
Adjust dilutions according to type and amount of soil.	

*NOTE: Always test product on an inconspicuous area before using. Since conditions of use are outside our control, we can assume no liability for results obtained or damages incurred through the application of this product.

Bulk Chemicals



Handles Cleaning
and Maintenance
in a Brand New Way!

- Super Concentrated Chemical Cartridges ~ **Dilutes 100 to 1**
- Strong, Fast-Acting Formulas ~ **Provide Exceptional Performance**
- Easy-to-Use ~ **No Complicated Mixing Equipment Necessary**
- Saves Space ~ **Hundreds of Cartridges Fit on a Small Storage Shelf**
- Less Expensive ~ **QX1 Cartridges Weight 1/50 of Ready-to-Use Products, Dramatically Reducing Shipping Costs**
- Environmentally Friendly ~ **Bottles and Sprayers are Reusable and Refillable**
- Safer ~ **No Contact with Concentrated Chemicals**
- Color Coded Labels ~ **Bottles and Cartridges are Color-Coded for Instant Recognition**
- Meets All Safety Requirements ~ **OSHA and EPA Compliant Prelabeled Bottles**

QX1 ... Easy as 1, 2, 3!

1. FILL **Bottle With Water**
2. INSERT **QX1 Cartridge**
3. ATTACH **Trigger Sprayer**



FILL WITH WATER



INSERT CARTRIDGE



ATTACH TRIGGER SPRAYER TO BOTTLE



NOTE: Bottle, Cartridge and Sprayer are proprietary designs and cannot be used with other components.
They must be used with the QX-1 System to work properly.

Bulk Chemicals



*Empty Bottle:
Part #74710B

*Trigger Sprayer:
Part #1815

QX1 Glass Cleaner with Anti-Stat (For glass, plastic and CRT screens)

Part #74710 – .33 fl. oz.
cartridge

A specially formulated glass, plastic and CRT cleaner designed for use on glass, Lexan®, Lucite®, mirrors, menu boards and other surfaces not harmed by water. This fresh blue formula utilizes a special combination of soil-suspending detergents, and wetting agents to quickly remove soil smudges, grease and finger prints without streaking. Quickly cleans and shines surfaces. Anti-static to repel airborne dirt.

Features:

- Safe on all thermoplastics
- Safe on anti-glare window coverings
- Streak-free, anti-static formula

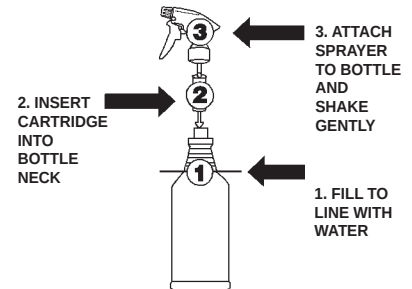
Applications:

- Glass
- Mirrors
- Appliances
- Lexan®
- Lucite®
- Plexiglass
- Computer Monitors
- Other hard surfaces

Directions:

Insert one (1) cartridge with fresh clean water in the 32 oz. plastic bottle. Using a trigger sprayer P/N 1815, apply directly to surface. Hold 6-8 inches from surface and spray lightly. Wipe dry with lint-free towel or cloth. When cleaning computer screens, do not spray directly on equipment, spray on wiping cloth and then clean screen.

**Bottle and Trigger designs are proprietary and must be used for the QX-1 System to work properly.*



Bulk Chemicals

QX1 Multi-Purpose Cleaner (Powerful spray and wipe cleaner/degreaser)

Part #74711 – .33 fl. oz.
cartridge



*Empty Bottle:
Part #74711B

*Trigger Sprayer:
Part #1815

Combines powerful grease cutting and cleaning agents to eliminate problem soils and stains. Removes grease, grime, oil and dirt buildup from work stations, table tops, countertops, walls, etc. Leaves surfaces squeaky clean and residue free.

Features:

- Concentrated spray and wipe formula
- Removes soil and ink from non-porous surfaces
- Residue-free
- Heavy duty grease cutting
- Non-flammable • Biodegradable
- Pleasant fragrance

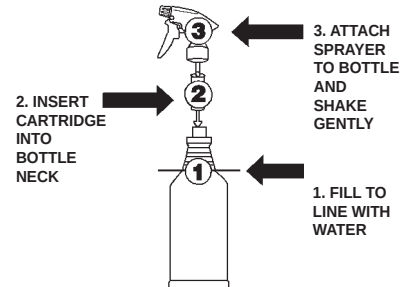
Applications:

- Schools
- Universities
- Child Care/Day Care
- Hospitals
- Institutions
- Nursing Homes
- Prisons
- Offices
- Gas Stations
- Restaurants
- Manufacturing Facilities
- Motel/Hotels

Directions:

Hold container with trigger sprayer attached 6-8 inches from surface and lightly spray surface. Wipe dry with lint-free towel or cloth.

**Bottle and Trigger designs are proprietary and must be used for the QX-1 System to work properly.*



Bulk Chemicals

QX1 Disinfectant Cleaner (No-rinse cleaner and disinfectant)

Part #74712 – .33 fl. oz.
cartridge



*Empty Bottle:
Part #74712B

*Trigger Sprayer:
Part #1815

An extremely effective cleaner, deodorizer and disinfectant specifically designed for use in hospitals, nursing homes, schools, hotels and food service establishments. Provides broad spectrum effectiveness against gram-positive and gram-negative bacteria including Staphylococcus Aureas (Methicilin Resistant), viruses (including HIV-1 the AIDS virus) and pathogenic fungi including T. mentagrophytes (the athlete's foot fungus) in the daily struggle to control cross-contamination and reduce the spread of infection.

Features:

- One-step cleaner / disinfectant
- Kills VRE, MRSA and HIV-1 virus
- Concentrated
- Cleans tough soils
- Fresh pleasant fragrance

Applications:

- Schools
- Universities
- Child Care/Day Care
- Hospitals
- Institutions
- Nursing Homes
- Prisons
- Offices
- Gas Stations
- Manufacturing Facilities
- Motels and Hotels
- Restaurants

Directions:

Insert one (1) cartridge with fresh clean water in the 32 oz. plastic bottle. Using a trigger sprayer P/N 1815, apply directly to surface. Hold container with trigger sprayer attached 6-8 inches from surface and lightly spray surface. Treated surface must remain wet for 10 minutes. Wipe dry with with lint-free towel or cloth.

QX1 Odor Eliminator (Encapsulates and destroys toughest odors)

Part #74713 – .33 fl. oz.
cartridge



*Empty Bottle:
Part #74713B

*Trigger Sprayer:
Part #1815

Our concentrated liquid malodor counteractant eliminates odors, leaving behind a fresh, pleasant scent. This product has no color dies and may be utilized on a variety of surfaces such as fabrics, carpets, upholstery, waste receptacle interiors, toilets and urinals.

Features:

- Counteracts the most pungent odors
- Will not harm most fabrics
- Atomize or apply directly to odor source
- Eliminates cigarette and other smoke odors fast

Applications:

- Toilets and Urinals
- Carpets
- HVAC Ducts
- Fabrics
- Institutions
- Waste Cans
- Drains

Directions:

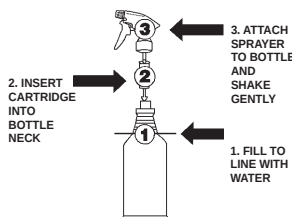
Insert one (1) cartridge with fresh clean water in the 32 oz. plastic bottle. Using a trigger sprayer P/N 1815, apply directly to surface. Hold container with trigger sprayer attached 6-8 inches from surface and lightly spray surface. Wipe dry with with lint-free towel or cloth.

For Counteracting Airborne Odors: Using a trigger sprayer, discharge into the air an appropriate amount of formula allowing 5 to 20 seconds for the fresh scent to counteract unwanted odors.

For Fabric Treatment: Discharge an appropriate amount of product to fabric, upholstery, curtains, etc. Hold sprayer approx. 10 to 15 inches from surface. Apply product evenly to affected areas. Always test on inconspicuous area first.

Guest Accommodations: Apply proper amount of product approximately 5 inches above carpet level to entire perimeter of room or until odor is eliminated.

* Bottle and Trigger designs are proprietary and must be used for the QX-1 System to work properly.



Cleaners and Degreasers



Foaming Coil Cleaner

Part #74268 – 18 oz.

(HVAC multi-purpose equipment maintenance)

The no rinse formula reaches all areas of coils and the inverted spray allows for easy access to all areas of unit.

Features:

- Thick foam lifts out and holds dirt and grime in suspension until it is rinsed or condensation washes away the dirt and soil
- Pleasant scent
- For indoor and outdoor use
- Non-caustic and non-acid formula make for safe use
- Saves time and labor

Applications:

- Hotels
- Industrial plants
- Automotive
- Hospitals
- Roof top units
- Window units



Coil and Filter Cleaner

Part #74165 – 17 oz.

(HVAC multi-purpose equipment maintenance)

A non-caustic, non-acid cleaner designed to remove a build-up of dirt and grime on coils and filters. Also works well as a filter adhesive, providing a viscous tacky maze of lattice work to catch dirt, dust or pollen too small for retention by the filter.

Features:

- Removes dirt and grime on coils and filters
- No rinsing
- Non-flammable
- No corrosive residue

Applications:

- Can be used to renovate all types of coils, filters and condensers used in heating plants, air conditioning systems, refrigeration plants and other heat exchange equipment.



Brake Clean N.C.

Part #74147 – 12.25 oz.

(Non-chlorinated cleaner and degreaser)

Specially formulated to work quickly and effectively to remove brake fluid, grease, dirt and other contaminants from brake linings, disc brake pads, brake drums, springs, wheel cylinders and other brake parts. An excellent cleaner for other dirty, greasy parts.

Features:

- Cleans and degreases all brake parts
- Instantly removes dirt, grease and brake fluid
- Improves brake performance
- Stops disc brake squeal
- Leaves no residue

Applications:

- For use on brake linings, disc brake pads, brake drums, springs, wheel cylinders and other brake parts



Choke and Carb Cleaner

Part #74115 – 14.75 oz.

(Fast-drying carburetor cleaner)

Specifically formulated to clean, lubricate and protect chokes, carburetors, PCV systems, manifold heat valves, linkages and butterfly valves.

Features:

- Removes carbon, dirt, gum and varnish deposits
- Cleans, frees and renews automatic chokes, carburetors, linkages, PCV valves, manifold heat controls
- Dries fast, leaving no oily film

Applications:

- For use on chokes, carburetors, PCV systems, manifold heat valves, linkages and butterfly valves

Cleaners and Degreasers



Battery Acid Cleaner/Neutralizer Wipes

P/N 74098 – 30 Wipes

(Heavy duty color-changing treated sheet for lead acid batteries)

Wipe the surface, removing deposits. The blue wipe will turn pink in the presence of the acidic corrosion. Continue scrubbing the area until the wipe turns back to its original blue color. This will indicate that the acid has been neutralized.

Features:

- Formulated to clean, remove corrosion, and neutralize battery acid
- If heavily corroded - after using wipes, a light scrubbing with a plastic bristle brush will remove corrosion with no messy foam
- Contains acid neutralizing agents
- Color changing system lets you know when the acid is neutralized

Applications:

- Car & Truck Batteries
- Golf Cart Batteries
- Terminals
- Connectors
- Trays

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Battery Protector & Cleaner

Part #74106 – 15 oz.

(Protective coating for batteries and battery terminals)

Excellent for use on batteries, terminals, cables, brackets, and housings. It is great for vehicle fleets, golf carts, airplanes, boats, tractors, forklifts, construction equipment, floor scrubbers, and more. This advanced formulation serves four applications in a single product! It cleans, detects acid, neutralizes acid, and protects against corrosion.

NOTE: Do not allow this can to come into contact with battery cables or terminals, electrical wiring or other electrical components. This can will conduct electricity and may cause an electrical spark resulting in serious injury from can rupture, flash fire or electrical shock.

Features:

- Prevents terminal corrosion
- Assures continued high-voltage output
- Prolongs battery life

Applications:

- Battery Terminals • Cable Connectors
- Casings • Frames • Housings

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Insta-Shine Truck/Bus Protectant

Part #74169 – 16 oz.

(Fast polish and shine for painted/chrome surfaces)

Instantly cleans, polishes and protects painted surfaces, chrome, fiberglass and plastic. It cuts through grease, bugs, tar and road film without water, leaving a durable, water-repellent protective finish. Produces a professional shine on trucks, buses, autos, vans, boats, etc.

Features:

- Cleans, polishes and protects
- For use on exterior and interior surfaces
- Simple "spray and wipe" application
- Leaves a high gloss water repellent finish

Applications:

- Produces a professional shine on trucks, buses, autos, vans, boats, etc.

Cleaners and Degreasers



A/C Flush (For use in flush guns)

Part #74382 – 1 Quart / 946 ml

Part #74383 – 1 Gallon / 3.78 L

Red Lion™ A/C Flush Solution is an excellent tool for retrofitting R12 systems to R134a as mineral oil will be removed from components being flushed. For best results, use with A/C Flush Gun (P/N 78047).

Features:

- Simple to use Premium Solvent-Based Solution
- Compatible with R-12, R-134a & R-22 Systems
- Removes debris and sludge from A/C components
- Evaporates quickly and leaves no residue



A/C Flush (Non-Flammable) (For use in flush machines and flush guns)

Part #74384 – 1 Quart / 946 ml

Part #74385 – 1 Gallon / 3.78 L

Red Lion™ Non-Flammable A/C Flush is a premium solvent-based flushing agent for use in closed loop flushing machines and pressurized flush guns for mobile A/C systems. It is an excellent replacement for R141b refrigerant when used to clean and degrease mobile A/C systems and components. Non-flammable A/C Flush is an excellent product to use during the retrofit process from R12 to R134a and for repair of R134a systems.

Features:

- Simple To Use Premium Non-Ozone Depleting Solution
- Compatible with R-12, R-134a & R-22 Systems
- Removes debris and sludge from A/C components



Club Clean

P/N 74199 – 3 oz.

(Foaming golf equipment cleaner)

Club Clean is a “technologically advanced” formula that safely and effectively cleans all types of golf equipment.

Features:

- For solid, booming drives and accurate iron shots
- Create more ball spin on wedges and short irons
- Studies show that cleaner balls lead to fewer putts

Use on:

- Drivers
- Irons
- Shoes
- Balls

Cleaners and Degreasers



Surface Disinfectant

Part #74261 – 15.5 oz.

(Disinfects on hard, nonporous inanimate environmental surfaces)

Disinfects on such bacterial-and viral-carrying surfaces as toilet seats, telephones, garbage and refuse cans, urinals, athletic equipment, light switches, bed pans, empty hampers and other out of the way places. Disinfects hard, non-porous surface of shoes and slippers. Controls mold and mildew on mattresses, awnings, shower curtains, leather goods. Controls mildew and mold growth on painted or finished walls, ceilings and woodwork in closets, basements, attics, storage areas, summer cottages, damp and musty corners. Deodorizes and reduces annoying odors. Use to control odors in hospitals and nursing homes. Effectively suppresses odors caused by mold and mildew.

Features

Kills the following:

- Influenza A₂/Hong Kong Virus
- Influenza A(H1N1)
- Aspergillus niger (ATCC 16404)
- Human Herpes Simplex Virus Type 1 (ATCC VR-733F) and Type 2 (ATCC VR-540)
- Human Immunodeficiency Virus Type 1 [HIV-1 (AIDS virus)]
- Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33591)
- Mycobacterium tuberculosis var bovis (BCG)
- Polio Virus Types 1 and 2
- Pseudomonas aeruginosa (ATCC 15442)
- Salmonella choleraesuis (ATCC 10708)
- Staphylococcus aureus (ATCC 6538)
- Trichophytonmentagrophytes (ATCC 9972)
- Vancomycin Resistant Enterococcus faecalis (VRE) (ATCC 51299)

Dis-N-Clean™

Part #74188 – 16 oz.

(Foaming disinfectant cleaner)

Designed for general cleaning and deodorizing. Cleans and disinfects against micro-organisms. Non-abrasive. Prevents and controls mold and mildew and the odors they cause on hard non-porous surfaces.

Features

- Multi-purpose cleaner – cleans, shines, disinfects and deodorizes
- Industrial strength formula – tough on soap scum
- Easy-to-use – no scrubbing or rinsing necessary
- Non-abrasive "surface safe" – won't scratch fiberglass
- Fresh clean scent – leaves pleasant odor
- Kills HIV on pre-cleaned environmental surfaces
- Contains no CFCs – won't harm ozone

Applications

- Designed for general household cleaning in hospitals, institutions, nursing homes, offices, schools, motels and hotels
- For use on non-porous hard surfaces such as fiberglass, chrome, plastic, baked enamel and glazed porcelain



Cleaners and Degreasers



Cleaner/Degreaser

Part #74265 – 32 fl. oz.

(A thick, heavy-duty spray & wipe cleaner/degreaser)

Destroys grease and grime on contact leaves a pleasant lemon/lime fragrance.

Features

- THIX' -O- TROP'IC: The phenomenon exhibited by certain gels of becoming thick when shaken and returning to a fluid liquid upon standing
- Cuts through tough oils with ease
- Leaves a clean residue free surface
- Stays and works where you spray it

Applications:

- For use on all hard surfaces
- Will not affect paint, glass or mirrors
- Works great on grout
- Simply spray and wipe away grease, grime, oil, carbon, soot, smoke film, magic marker, crayon, lipstick and more

Glass & Surface Cleaner

Part #74264 – 32 fl. oz.

(Non-ammoniated, thick, ready to use cleaner with sprayer)

Designed to quickly and effectively remove dirt, grease, grime and other contaminants from a variety of hard surfaces without the possibility of streaking or leaving behind an unsightly film.

Features

- THIX' -O- TROP'IC: The phenomenon exhibited by certain gels of becoming thick when shaken and returning to a fluid liquid upon standing
- Formulated with the revolutionary detergent system LS2
- Lifts away the toughest soils on all glass surfaces
- Wipes off quickly, without streaks or rainbows
- Cleans, restores, shines
- Will not cause build-up on surfaces
- Pleasant citrus crème fragrance helps deodorize while it cleans

Applications:

- Mirrors, windows, automotive glass, tile, porcelain, chrome, stainless steel and white boards
- Will easily remove (without streaking) the heavy film left from cigarette, cigar and pipe smoke on the inside of the glass



Clean & Fresh Bathroom Wipes

Part #74457 – 160 count

(You can be assured of a clean, healthy and useable bathroom every time.)

Each wipe is premoistened with a potent formula that cleans on contact and evaporates within seconds. Biodegradable and completely flushable. Won't cause plumbing problems or back-ups.

Features

- Premoistened with a potent formula that cleans on contact and evaporates within seconds
- Biodegradable fabric wipes
- Quick and easy-to-use, just wipe and flush down toilet
- Compliant with ASPM Flushability Specification
- Will not cause plumbing problems or back-ups

Applications:

- Toilet seats, bathroom fixtures, door handles, other hard surfaces
- DO NOT use as toilet tissue or for personal cleansing

Cleaners and Degreasers



Glass Cleaner

Part #74120 – 17.75 oz.

(Strong, ammonia-based glass and surface cleaner)

A modern professional formula that cuts through the toughest kinds of dirt with little effort. It contains no silicone and is fortified with ammonia to dissolve smudge, soot, greasy film and smears. No streak formula!

Features:

- Removes dirt and grime
- Spray on and wipe dry
- Leaves no film
- Ammonia-fortified
- Contains no wax or silicone

Applications:

- Ideal cleaner for windows, mirrors, windshields, stainless steel, formica, sinks, tile and chrome

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Glass Cleaner Wipes

Part #74536 – 70 count

(Strong, ammonia-free pre-moistened glass / surface cleaner towels)

Easiest and quickest way to clean your glass and windows and keep them looking like new. Premoistened with a powerful ammonia-free formula. Removes dust, dirt, oil and grease smudges, water spots, fingerprints and smoke film from any glass surface and leaves it with a dazzling shine.

Features:

- Ammonia-free
- Streakproof
- Non-flammable

Applications:

- Ideal cleaner for mirrors, light fixtures, windshields, display cases, shower doors, glass tables, computer screens, chrome, tile and porcelain

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PVA Wipes

Part #74528 – 80 count

(Paint, varnish and adhesive pre-moistened cleaning towels)

Convenient, multipurpose towels eliminate the need for water or other cleaners and are designed to absorb soil and not transfer back on hands. Conditions hands with aloe, vitamin E and emollients. Hands will be clean, dry and non-sticky. Cleans most surfaces quickly and easily.

Features:

- Fast, effective non-shredding, gentle on skin
- Removes grease, grime, tar, carpet stains and more
- Removes odors from hands such as diesel, gasoline, fish and onion smells
- Non-flammable

Applications:

- Removes adhesives, ink, nail polish, paint, varnish, scuff marks, permanent marker, counter stains and many types of soils
- Use to clean hands, tools, equipment, leather tennis/sports shoes and recreational items

IMPORTANT: Pre-test plastic surfaces for compatibility. Do not use on polished brass or fine furniture. May not be suited for certain clear plastics such as plexiglass or styrene.

Cleaners and Degreasers



Stainless Steel Cleaner Wipes

P/N 74610 – 40 count

(Cleans, Shines and Protects Surfaces in One Step)

When stainless steel becomes soiled with fingerprints, dirt and residue, these wipes quickly remove heavy soils and restore a brilliant shine. Stainless Steel Wipes are pre-moistened with a powerful, VOC-compliant solution that effectively removes grime yet won't harm stainless steel.

Features:

- Cleans, polishes and brightens stainless steel surfaces
- Leaves a protective barrier to prevent water marks and corrosion
- Formulated for more even coverage and can be buffed out if desired
- Leaves a pleasant citrus fragrance

Applications:

Cooking/Refrigeration Equipment • Vending Machines • Beverage Dispensers
Laundry Machines • Elevator Doors and Walls • Escalator Walls • Restroom Stall Partitions



Quik-Shine™ Metal Polish

Part #74173 – 5 oz.

(Metal polisher and cleaner)

Cleans and polishes all metal surfaces. Removes rust and corrosion instantly. Leaves no deposits in the crevices of metal work.

Features:

- Cleans and polishes
- For use on all metal surfaces
- Instantly removes rust and corrosion

Applications:

Silver • Gold • Brass • Nickel • Copper
Pewter • Steel • Aluminum • Chromium
Zinc • Wheels • Boat Fittings • Tools
Fishing Gear • Sinks • Showers • Campers



Metal Cleaner & Tarnish Remover

Part #74537 –
16 oz.

(Polishes and protects, leaving a lustrous shine)

This unique chemical action formula removes tarnish and soil quickly and easily. Use on brass, bronze, copper and nickel. No need to wait for product to dry. Polishes and protects while leaving a lustrous shine. Polished surface also resists tarnishing.

Features:

- Unique chemical action formulated to remove tarnish and soil quickly and easily
- Polishes and protects
- Leaves a lustrous shine

Applications:

Hand Rails • Kick Plates • Plaques
Door and Furniture Hardware
Statues • Light Fixtures

30



Insta-Clean™

Part #74121 – 12.75 oz.

(Rubber and vinyl cleaner and protectant)

Cleans and shines all rubber, vinyl and other synthetic surfaces without washing or wiping — just spray on and walk away! Its unique self-cleaning foaming action quickly removes caked-on dirt while leaving a long lasting, high gloss shine. Protects surfaces from discoloration and oxidation. Will not harm aluminum or painted surfaces.

Features:

- Powerful foaming action
- No washing or wiping necessary
- Leaves a high gloss protective shine

Applications:

Ideal for use on rubber and vinyl components of machinery and equipment; vinyl and plastic furniture; and truck/auto tires and plastics — It makes them look showroom new!

Cleaners and Degreasers



Baseboard/Stripper Cleaner

Part #74174 – 18 oz.

(Superior cleaning due to stability on vertical surfaces)

Specially formulated with powerful cleansers which allow soiled areas to be treated while keeping them looking clean and attractive. Removes scuff marks, wax build-up, grease and grime.

Features:

- Heavy duty jelled formula clings to vertical surfaces for complete penetration and removal
- No phosphates
- No caustics
- Liquifies finish in minutes
- No harmful residues
- No harmful vapors

Applications:

- Baseboard, floors, and ceramic wall tile

Contact Cleaner P.S.

Part #74704 – 13 oz.

(Plastic safe industrial strength cleaning solvent)

This non-flammable, fast drying industrial strength cleaning solvent is specifically formulated for precision cleaning and degreasing of electrical contacts, switches, relays and controls in electromechanical assemblies. It is non-corrosive, non-conductive, safe for sensitive metals and most plastics. Can also be used on energized equipment. Powerful spray stream removes dust, dirt, oil, grease and oxides – leaving no residue after evaporation.

Features:

- Instantly removes grease, oils and dirt
- Safe for use on energized equipment
- Safe on most plastics
- Noncorrosive / nonconductive / nonflammable
- Adjustable spray nozzle – low / medium / high

Applications:

- For use on electrical contacts, switches, relays and controls in electromechanical assemblies



Degreaser

Part #74111 – 15.75 oz.

(Kerosene-based degreaser)

Specially formulated to clean all mechanical engines, machinery, tools and even greasy floors. Removes dirt, grease and varnish deposits by simply spraying on and flushing off with water. Best cleaning results are obtained when engine is at normal operating temperature.

Features:

- Non-corrosive
- Low odor
- Penetrates through grease and grime
- Easy to use
- Water soluble

Applications:

- For use on all mechanical engines, machinery, tools, floors, equipment, trucks, forklifts, chains and cables



Cleaners and Degreasers



High Performance Safe-Acid Cleaner

P/N 74615 – 1 qt. | P/N 74616* – 1 gal. | P/N 74617* – 5 gal. | P/N 74618* – 55 gal.

* Non-stock item. Please call for delivery.

(Non-toxic, Non-corrosive, Non-fuming, Biodegradable Cleaner)

This liquid multipurpose cleaner generates the heavy duty cleaning power of an acid, yet it is safe and mild like liquid dish soap. Remarkable formula contains a special blend of surfactants, organic salts and proprietary additives to create an acid-replacement cleaner that is environmentally safe and biodegradable. Effective against rust, hard water stains, calcium, scale and lime deposits, beer stone, milk stone, soap scum, scuff marks, stains and soils, grease.

Features:

- Biodegradable, multifunctional high-performance cleaner.
- Contains a special blend of surfactants and proprietary organic additives.
- Concentrated formula offers multiple dilution rates.

For use on:

Stainless Steel • Copper • Brass • Aluminum • Concrete • Terrazzo • Stone • Ceramic Porcelain • Fiberglass • Brick • Appliances • Food Surfaces* • Steam Tables
Coffee makers • Humidifiers • Toilets • Urinals • Tile and Grouting • Showers • Tubs
Sinks • Floors • Walls • Fish Tanks • Vents

* Potable water rinse required.



Citrus Grease Digester

P/N 974250 – 1 Quart

(Powerful citrus base, biodegradable cleaner)

Revitalizes sluggish disposal systems, quickly reducing buildup of grease and slime in sewage treatment equipment without affecting bacterial activity. Effectively controls odor. Will not harm metal pipes. Eliminates heat generation. Nonacid. Noncaustic. Noncorrosive.

Features:

- Unclogs, deodorizes and degreases
- Extremely effected in drains, grease traps, septic systems, dry wells and cesspools
- Environmentally safe
- All natural citrus base

Applications:

- Used in sewage treatment plants, landfills, waste disposal facilities and for the maintenance of drains, refuse trucks and cans, and garbage areas.



Pro-Tex

Part #74152 – 17.75 oz.

(Anti-static cleaner and protector)

An excellent brightener and protector which resists scratches, marks, smudges and water spots. Use on glass, mirrors, chrome, tile and laminated plastics. Formulated to keep automobile interiors and exteriors cleaner and brightener with less maintenance.

Features:

- Anti-static cleaner and protector
- Resists Scratches and finger smudges
- Excellent CRT screen cleaner
- Long lasting – requires infrequent cleaning

Applications:

- Use for protect CRT screens, glass, mirror, chrome, paint finishes, vinyl, tile, leather and laminated plastics

Cleaners and Degreasers



Electronic Equipment Wipes

(Eliminates static to avoid electronic data loss)

Part #74456
30 Count - 7" x 9" Towels

Wiping down electronic equipment with these wipes, protects devices from static electricity and avoids dust. Premoistened with a special formula that neutralizes the effects of static electricity. This avoids the loss of important data stored on computer equipment such as hard drives.

Features:

- Special formula eliminates static to protect the loss of data
- Eliminating static keeps dust from collecting on equipment
- Cleans and sanitizes surfaces
- Towels can be used on almost any electronic equipment

Applications:

- LCD screens
- Telephone ear & mouth piece
- Copiers
- Office equipment
- Keyboards
- Printers
- Computer terminals
- Fax machines
- Televisions

Dust Blaster™

Part #8209 – Complete System

(Powerful, ozone safe, precision duster)

Instantly removes dust and particles from equipment, electronics, computers, medical devices and camera lenses. Contains 100% pure and safe natural gas. No CFC's or HCFC's. Convenient cylinders are disposable and recyclable. The precision control valve is reusable.

Features:

- Ozone safe
- Powerful 850 psi jet action
- Five times stronger than aerosols
- Reusable precision valve

Dust Blaster™ P/N 8209 includes:

- Control Valve with Nozzle P/N 8214
- 12 Disposable Cylinders (38g) P/N 74182

Applications:

- For use on electronics, computers, medical devices and camera lenses

Dust Blaster Max

Part #74175 – 10 oz.

(Inert, dry gas duster)

Instantly removes dust, lint and particulates from equipment and delicate electronic assemblies. Cleans with a dry blast without risk of scratching or damaging surfaces. Ultra-pure, non-flammable formula is safe to use on energized equipment.

Features:

- Instantly removes dust / particulates
- Cleans delicate materials
- Safe for most surfaces
- Ultra-pure, filtered to 0.2 Microns

Applications:

- For use on hard-to-reach areas, "touch-sensitive" surfaces (internal components of TV sets, cameras, camcorders, VCRs, computers, audio equipment, CD players, etc.) and coated glass or plastic lenses



Control Valve with Nozzle
P/N 8214

Disposable
Cylinder (38g)
P/N 74182

Dust Blaster™
• P/N 8209
Complete System



Cleaners and Degreasers



Easy-Out Stain Remover

Part #74176 – 32 fl. oz.

(Non-hazardous, water-based, carpet and upholstery stain remover)

Quickly and easily removes the following stains from carpet, upholstery and other fabrics: blood, candle wax (break up first), catsup, chocolate, coffee, cosmetics, crayon, food, fruit juice, grass, grease, grime, iodine, latex paint, liquor, mildew, oil, pet stains, shoe polish, tea, urine, washable ink, wine and many more.

Features:

- Quickly and easily removes stains from carpet and upholstery
- Contains no solvents or hazardous ingredients
- Leaves fabrics clean and fresh

Applications:

- For carpet, upholstery and other fabrics

NOTE: Dyes, indelible ink or stains set by heat may not be possible to remove.



Carpet/Upholstery Spot Remover

Part #74262 – 17 oz.

(General purpose water & oil-based stain remover)

This handy aerosol spray quickly dissolves away tough stains like grease, oil and lipstick from fabric or fibrous material without heavy scrubbing. Its powerful formula removes both water-based and oil-based stains and even removes stubborn, dried-on stains.

Features:

- For use on carpets, upholstery, curtains, drapes
- Effectively removes both water and oil-based stains
- Safe for use on most fabrics
- Use as a pre-spotter prior to carpet extraction

Applications

Removes:

- | | |
|---------------|--------------|
| • Ink | • Cola |
| • Grease | • Coffee |
| • Tar | • Lipstick |
| • Oil | • Wine |
| • Shoe Polish | • Pet Stains |



Carpet Spot Direct

Part #74258 – 18 oz.

(Powerful carpet stain and spot remover)

Quickly and easily removes protein based stains due to dirt, ink, grease, oil, mud, ketchup, urine, vomit, coffee, tea, alcoholic beverages, soft drinks and bloods.

Features:

- Pinpoint stream sprays upside down onto stains without heavy overspray
- Quickly saturates materials for instant cleaning
- Leaves no residue behind
- Cleans and degreases with water soluble solvents, will not soften carpet backings
- Contains an odor modifier which destroys odor due to urine and vomit through oxidation catalysis
- Leaves a pleasant fragrance

Applications:

- Use to remove stains due to dirt, ink, grease, oil, mud, ketchup, urine, vomit, coffee, tea, alcoholic beverages, soft drinks and blood.

Cleaners and Degreasers



Quick Clean

Part #74105 – 17.75 oz.

(General purpose foaming cleaner)

The ultimate general purpose quick cleaner removes dirt, grease and grime.

Features

- Removes dirt, soil and grime
- Safe on most surfaces
- Quick-acting and easy-to-use
- Spray on and wipe off

Applications

- For use on equipment, walls, plastic, vinyl, rugs, drapes, wood surfaces, fixtures, furniture and painted surfaces

Quick-Solv™

Part #74186 – 19 oz.

(Nonflammable, fast-evaporating cleaner/degreaser)

A nonflammable, fast-evaporating cleaner that penetrates instantly to remove dirt, oil, grease and wax. Increases the life of electrical components by removing foreign materials that can cause costly downtime. High dielectric strength of 26,000 volts per mil. Degreases more thoroughly and several times faster than alkaline cleaners. Equipped with high-delivery valve for cleaning efficiency and 5" extension tube for hard-to-reach areas.

Features:

- Strong solvent formulation quickly removes grease, dirt and oil
- High dielectric strength prevents shorting of electrical and electronic equipment
- No flash or fire point – eliminates fire and explosion hazards
- Fast evaporation speeds clean-up and downtime
- Noncorrosive, nonconductive and nonstaining for safer application

Applications:

- Cleaning and degreasing of all parts, equipment and machinery
- Excellent for cleaning sheet and strip steel prior to galvanizing
- Ideal for degreasing bearings and engine components



Citrus Blast - H.D.

P/N 74142 – 16 oz.

(Heavy Duty Industrial Foaming Degreaser)

Citrus Blast - H.D is a heavy duty industrial degreaser with a foaming jet stream spray pattern. It is a very effective degreaser without the use of harmful caustics or solvents.

Features:

- Strong solvent formulation quickly removes grease, dirt and oil
- High dielectric strength prevents shorting of electrical and electronic equipment
- No flash or fire point – eliminates fire and explosion hazards
- Fast evaporation speeds clean-up and downtime
- Noncorrosive, nonconductive and nonstaining for safer application

Applications:

- Powerful foaming spray dissolves grease, oil, grime and more
- Excellent for accumulations of grease or tar and asphalt on engines or engine parts
- For use on coils, fins and filters

Use on:

- Machinery • Tools • Industrial equipment • Walls • Concrete • Protective coatings



Cleaners and Degreasers

FACILITY WIPES (ALL-SURFACE CLEANING WIPES)

Facility Wipes

Designed to clean and deodorize any surface, anywhere. They are excellent for quick and easy cleaning of equipment, furniture and facilities. Wipe down surface with fresh towel and throw towel away when finished. Good for cleaning metal, glass, tiles and ceramic.

Features and Benefits

- 800 wipes per roll
- Cleans and deodorizes surfaces on contact
- Fast and easy to use towel, one step cleaning
- Wall mounted dispenser allows convenient individual use

Use With Center-Pull Dispenser (P/N 1789)

- Single-sheet release requires only one hand to tear off
- Made of tough impact resistant materials
- One of the most vandal-proof, break resistant, chemical and flame resistant products
- For heavy use applications

Applications

- Athletic clubs • Schools • Hospitals • Nursing homes • Restaurants • Health clubs • Offices

P/N 28235



P/N 1789



DESCRIPTION	PART
Facility Wipes (800 Wipes Per Roll - 8" x 10")	28235
Center-Pull Dispenser	1789

SHOP WIPES (HIGH-POWERED VERSATILE CLEANER)

Designed for use in industrial and manufacturing settings, each towel is pre-moistened with a powerful cleaning formula capable of cleaning hard-working hands, as well as non-porous surfaces. Made from an abrasive, yet non-scratching fabric that helps lift away heavy deposits of grime and dirt off hands and surfaces as well as leaving behind a fresh citrus scent. Scrub surfaces with abrasive side of towel until the dirt is loosened, then use the smooth side to wipe surfaces clean and discard.

Features and Benefits

- 400 wipes per roll
- High powered multipurpose cleaner
- Effective against tar, paint, wax, grease, adhesives and ink
- Abrasive, yet non-scratching fabric aids in cleaning
- Natural oils and emollients, safe for hands & skin

Use With Center-Pull Dispenser

- Offers single-sheet release
- Requires only one hand to tear off
- Made of tough impact resistant materials
- One of the most vandal-proof, break resistant, chemical and flame resistant products
- For heavy use applications

Applications

- Auto shops • Work benches • Maintenance areas • Offices • Plumbing sites • Marinas
- Break rooms & kitchens • Construction sites • Printing & painting areas • Manufacturing

P/N 28236



P/N 1789



DESCRIPTION	PART
Shop Wipes (400 Wipes Per Roll - 8" x 12")	28236
Center-Pull Dispenser	1789

Skin Care

STOKO® XTREME CARE CREAM

Xtreme Skin Conditioner

Use on hands, face and any other at-risk areas exposed to extreme conditions. Temporarily protects against the drying effects of harsh, cold environments, outdoors or indoors.

Features and Applications

- Contains Allantoin, Panthenol and Glycerin to strengthen the skin's natural defenses
- Helps protect skin from natural elements such as very low temperatures and lack of humidity
- Use on hands, face and any other at-risk areas exposed to extreme conditions
- Promotes healing of very dry, irritated skin
- Can also provide relief for severely dry skin
- Does not freeze
- Will dispense easily even at lower temperatures
- Passed Lineman's Glove Testing
- Silicone-free



DESCRIPTION	PART
Stoko® Xtreme Care Cream (3.38 fl. oz.)	74454

STOKOLAN® SKIN CARE CREAM

Concentrated Skin Conditioner

Frequent hand washing can lead to dry, chapped, cracked skin causing employees to avoid proper hand washing. With Stokolan® Skin Care Cream, employees are able to achieve the proper balance between effective cleansing and skin compatibility and help reduce the incidence of dermatitis in the workplace.

Features and Applications

- Concentrated conditioning cream replaces lost moisture after washing hands (silicone-free)
- Replaces the oils and lipids the skin loses in the course of a hard day's work
- Ideal for chapping, chafing and irritated skin
- Keeps skin feeling healthy and smooth
- Ideal for use in any industrial setting, as well as many other workplace environments
- Particularly necessary when skin is exposed to cold and/or dry climates or harsh working conditions



DESCRIPTION	PART
Stokolan® Skin Care Cream (3.38 fl. oz.)	74453

Skin Care

HANDI-SANI

Instant Hand Sanitizer

Red Lion™ Handi-Sani instant hand sanitizer is a light and refreshing hand sanitizing spritz, enhanced with moisturizers.

Features

- Active ingredient: 62% Ethanol
- pH: 7.5
- Helps reduce cross-contamination
- Kills 99.99% of E. coli, Salmonella enterica and Staphylococcus aureus (MRSA) in 15 seconds
- FDA registered
- Provides convenience and portability
- Fast-drying
- Conditions skin
- Requires no water
- FDA Approved

Applications

- Hospitals, nursing homes and physical therapy rooms
- Schools (buses, locker rooms)
- Health clubs and spas
- Daycare centers
- Transportation (airports, buses, subways, trains, etc.)



DESCRIPTION	PART
Handi-Sani (4 oz.)	74487

SANI-SMOOTH

Hand Sanitizing Foam

Red Lion™ Sani-Smooth foaming aerosol hand sanitizer is alcohol based and allows you to sanitize your hands when hand washing is not possible. Contains a unique blend of emollients and conditioners that leaves your hands silky smooth and soft. Using a foaming aerosol hand sanitizer is the preferred method by hospitals over the liquid variety. Sani-Smooth is a more efficient way for employees to frequently clean their hands and thus cut down on the spread of infection.

Features

- Active ingredient: Ethyl Alcohol 62%
- pH: 7.6
- Preferred by hospitals over liquid hand sanitizing products
- Non-Allergenic sanitary foam
- Removes dirt and bacteria without the need of water
- Provides convenience and portability
- Over 600 estimated uses per can
- Mounting hardware included with dispenser
- FDA Approved

Applications

- Hospitals, nursing homes and physical therapy rooms
- Schools (buses, locker rooms)
- Health clubs and spas
- Daycare centers
- Transportation (airports, buses, subways, trains, etc.)

P/N 74486



P/N 1819
Dispenser



DESCRIPTION	PART
Sani-Smooth (16 oz.)	74486
Dispenser	1819

Skin Care

SOAPS

ANTIMICROBIAL HAND CLEANER AND SANITIZER

A Thick One-step Hand Cleaner and Sanitizer that conforms to the E-2 Designation Requirements of the USDA

Red Lion™ Antimicrobial Hand Cleaner and Sanitizer is powered by Benzalkonium Chloride, which is effective against a broad spectrum of gram positive and gram negative bacteria.

Features and Benefits

- Approved for use in all USDA and federally inspected plants
- Fragrance and dye free advanced skin care formula
- Rich, mild lather that is pH balanced (5.5-7.0)
- 100% biodegradable
- Industrial size
- Industrial grade
- 85 fl. oz. dispenser sold separately (shown, P/N 1832)

Applications

- Suitable for use in all food manufacturing and processing facilities which require the highest levels of personal sanitation as part of their GMP
- Ideal for use in meat and poultry processing industries
- Use in other food handling environments such as restaurants and supermarkets



DESCRIPTION	PART
Antimicrobial Hand Cleaner and Sanitizer, 85 fl. oz.	74629
Soap Dispenser, for 85 fl. oz. Bottles, Color: black	1832

HEAVY DUTY SCRUB HAND SOAP

Concentrated Industrial Hand Cleaner

Fortified with leading edge skin conditioners and free floating polymer scrubbers, Red Lion™ Heavy Duty Scrub Hand Soap tackles the toughest dirt, grease and grime. Leaves hands clean and conditioned.

Features and Benefits

- Environmentally friendly formula
- Enriched with multiple emollients
- Promotes healthy skin care
- Contains no harsh petroleum solvents
- New age polymer scrubbers float away
- Green color, mild citrus scent
- 120 fl. oz. dispenser sold separately (shown, P/N 1830)



DESCRIPTION	PART
Heavy Duty Scrub Hand Soap, 120 fl. oz.	74630
Heavy Duty Scrub Hand Soap, 18 fl. oz.	74633
Soap Dispenser, for 120 fl. oz. Bottles, Color: gray	1830

Skin Care

SOAPS

H.D. CITRUS HAND SOAP

A Liquid, Heavy-duty Hand Cleaner

Red Lion™ H.D. Citrus Hand Soap is a formulation based on a synergistic blend of detergents, emulsifiers, solvents, and emollients. It works equally well with or without rinse water. This soap rinses easily, gently replaces the skin's oils, and leaves hands feeling clean and soft. Contains no pumice.

Features and Benefits

- Multiple emollient package
- Leaves skin soft and moisturized
- After cleaning, a small amount may be used as a hand lotion to recondition skin
- Orange color, citrus scent
- 120 fl. oz. dispenser sold separately (shown, P/N 1830)

Applications

- Easily removes dirt, grease, oil, grime, tar, asphalt, ink, paint & adhesive
- Can be used “on-the-job” because it easily wipes away with paper towels or cloths anywhere water is not available
- Also works wonderfully when rinsed with water



DESCRIPTION	PART
H.D. Citrus Hand Soap, 120 fl. oz.	74631
H.D. Citrus Hand Soap, 18 fl. oz.	74632
Soap Dispenser, for 120 fl. oz. Bottles, Color: gray	1830

CHERRY IMPACT HAND SOAP

Industrial Hand Cleaner with Cherry Fragrance

Red Lion™ Cherry Impact hand soap was developed specifically for professional technicians. Its super thick concentrate contains scrubbing particles, and stays on your hands during washing. Contains superior emollients to reduce drying and cracking.

Features and Benefits

- Medicated to promote healthy skin care
- Low solvent content formula
- Removes stubborn grease and oil
- Leaves hands feeling conditioned
- Red color, pleasant cherry scent
- 120 fl. oz. dispenser sold separately (shown, P/N 1830)



DESCRIPTION	PART
Cherry Impact Hand Soap, 120 fl. oz.	74471
Cherry Impact Hand Soap, 18 fl. oz.	74472
Soap Dispenser, for 120 fl. oz. Bottles, Color: gray	1830

SOAPS

MAGIC HAND SOAP

All Natural Industrial Hand Cleaner

Red Lion™ Magic Hand Soap contains walnut shell scrubbers to clean the toughest soils. It cleans the dirtiest hands like magic! Contains the anti-microbial “PCMX”.

Features and Benefits

- Fortified with supreme skin conditioners and biodegradable scrubbers
- Non-solvent formula eliminates drying and cracking
- Contains superior skin emollients and skin conditioners
- Cleans the dirtiest hands like magic
- No phosphates, dyes or perfumes
- Contains natural walnut shell scrubbers
- Thick concentrated formula reduces hand soap use by up to 75%
- Washes away completely with no greasy residue
- Brown color, mild citrus scent
- 120 fl. oz. dispenser sold separately (shown, P/N 1830)



DESCRIPTION	PART
Magic Hand Soap, 120 fl. oz.	74458
Magic Hand Soap, 18 fl. oz.	74459
Soap Dispenser, for 120 fl. oz. Bottles, Color: gray	1830

HAND CLEANER

POW-R-SCRUB HAND CLEANER

Fast Acting Hand Cleaner with Pumice Scrubbers

Professional strength pumice hand cleaner immediately goes into action to power out the worst grease and grime. Instantly attacks grease, grime, soils, resins, epoxies, paint, glue and rubber gasket, plus any other soil you can get your hands into. This convenient squeeze bottle, with its easy-to-use self-dispensing cap, eliminates the need for wall mounted dispensers.

Features

- Professional strength pumice hand cleaner
- Instantly attacks grease, grime, soils, resins, epoxies, paint and glue
- Contains fine pumice scrubbers
- Softens and protects skin with aloe and lanolin

Applications

- Removes grease/grime, inks, paint,rubber gaskets, epoxies/glue, soil and resins



DESCRIPTION	PART
Pow-R-Scrub Hand Cleaner (15 fl. oz.)	74416

Skin Care



H.D. Citrus Scrub

P/N 74521 – 128 fl. oz.

(Strong, citrus-based hand cleaner with pumice scrubbers & conditioners)

This citrus-based hand cleaner scrubs your hands clean quickly and naturally. Pumice scrubbers gently remove the toughest dirt, grease, grime, soils, resins, printer's ink, paint, glue, rubber gasket and tile cements. Contains lanolin, aloe and jojoba to moisturize skin. Regular use helps keep hands clean and conditioned. H.D. Citrus Scrub is pH balanced and bio-degradable*.

(Use with P/N 1806 Hand Cleaner Dispenser Pump). *Biodegradable according to OECD-301E.

Features:

- Industrial strength citrus formula
- Fine pumice scrubbers
- Removes the toughest grease, dirt and grime



H.D. Multi-Purpose Citrus Towels

(Industrial Degreaser for Hands, Tools, and Surfaces) P/N 74609 – 90 count

Multi-Purpose Citrus Towels are pre-moistened with a high-powered, multi-purpose, grease-cutting formula that lifts away grease, tar, adhesives, wax, ink, paint and lubricants from hands and other non-porous surfaces. The superior grease-grabbing performance is ideal for use on tools, equipment, and hands. Natural oils and an emollient are safe for hands and skin, and will not cause drying, unlike similar products. Non-scratching towel is abrasive on one side and smooth on the other.

Features:

- Won't scratch hands or surfaces
- No rinsing, no residue
- Fresh citrus scent
- Powerful grease removal on a convenient pre-moistened wipe
- Abrasive towel material provides tough scrubbing action
- Fortified with an emollient so they won't dry hands and skin, unlike similar products
- Ideal as a point-of-use waterless cleaner
- 50-state VOC compliant



PVA Hand Cleaner

P/N 74512 – 15 oz.

(Paint, varnish and adhesive hand cleaner)

Safely and effectively removes paints, urethanes, sealants, adhesives, stains, plastic fillers, putty and more. Fortified with 8 skin care ingredients and micrograin scrubbers for extra cleaning power. Rinses thoroughly with no unpleasant odor or sticky afterfeeling. Complies with VOC Consumer Product Rules. Rub a small amount into the hands, add a little water and rub hands vigorously. Rinse hands and dry thoroughly. Environmentally friendly with no greasy residue. Leaves a fresh, clean scent.

Features:

- Unique DBE Solvent Formula
- Protects silicone-sensitive accessories
- Skin-friendly formula – Helps ensure healthy hands
- With vitamin C antioxidant
- Helps protect skin from UV-related damage
- With vitamin E moisturizer
- Helps improve elasticity and smoothness of the skin
- Cuts Through Paint, Varnish, Adhesives and Other Tough Soils Without Damaging Hands
- Softens and Shields Skin with Aloe, Provitamin B5 and Jojoba

Applications:

Removes stain/varnish, urethane paints, primers, silicones, resins, enamels, oil paints, lacquers, adhesives/sealants, clear coats, body fillers and grease/grime

Skin Care



Citrus Clean GF (Waterless Hand Cleaner)

P/N 74427 – 1 Pint

A powerful hand cleaner formulated with d-Limonene to safely dissolve and remove heavy soils from skin.

Features:

- This effective grit-free (no pumice) hand cleaner is formulated with natural orange peel extracts
- Extracts dig deep down into the skin's pores to remove even the toughest dirt and grease
- Contains lanolin and other special emollients to prevent hands from becoming red and chapped
- An easy and convenient way to keep hands clean
- Contains no petroleum solvents
- Does not need to be rinsed with water

Applications:

Waterless hand cleaner that digs deep down into the skin's pores to remove even the toughest dirt and grease.

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Protective Skin Cream (USDA rated E-4 Skin Protectant)

P/N 74449 – 18 oz.

Protective Skin cream provides an “all-day” invisible greaseless film of protection on the skin against irritating materials. Its excellent emollient quality is ideal for chapped cracked skin. Clean-up with just soap and water to wash away the protective coating, dirt and irritating materials.

Features:

- Easy On...Easy Off!
- USDA rated E-4

Applications:

Protects Against Paints, Grease, Inks, Oils, Solvents, Gasoline, and Cement Burns

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Hand Sanitizing Wipes (With Aloe and Vitamin E Antiseptic)

P/N 74539 – 70 count

Formulated with aloe and antioxidant Vitamin E to moisturize the skin. This effective formula cleans hands while killing bacterial. Towels are made from a non-abrasive fabric that is gentle to the skin. Wipes are easy to use and not messy like sanitizing gels.

Features:

- Kills 99.9% of bacteria
- Leaves a fresh wintergreen fragrance
- Leaves hands feeling fresh
- Quick and easy to use, wipe and discard

Applications:

- For handwashing to decrease bacteria on the skin, only when water is not available
- Before contact with a person under medical care or treatment

Insecticides



Bug Be Gone Wipes (Powerful, fast-acting wipe-on insect repellent)

Part #74263 – 40 Wipes (6" x 8")

Repels mosquitoes, chiggers, ticks, deer flies, stable flies, black flies, gnats and fleas on exposed skin surfaces. Contains 25% DEET, one of the most effective insect repellents available. Just wipe onto exposed skin, and throw the wipe away.

Features

- Water-Based
- Non-VOC Formula
- No Strong/Offensive Odor
- Leaves No Sticky Residue
- Provides up to 4 hours of protection
- Convenient, easy to use
- Quick & thorough
- Contains 25% DEET

Repels

- Mosquitoes
- Chiggers
- Ticks
- Deer flies
- Stable flies
- Black flies
- Gnats
- Fleas

Applications

- Construction
- Utility Work
- Road Work
- Sanitation Crews
- Farming
- Gardening
- Camping
- Fishing
- Boating
- Hunting

Insect Repellent (Powerful, fast-acting insecticide)

Part #74705 – 6 oz.



Repels mosquitos, chiggers, ticks, deer flies, stable flies, black flies, gnats and fleas on exposed skin surfaces. Contains 25% DEET, one of the most effective insect repellents available.

Features

- Repels mosquitos, chiggers, ticks, deer flies, stable flies, black flies, gnats and fleas on exposed skin surfaces.

Applications

- Use just enough repellent to cover exposed skin and/or clothing.
- Do not use under clothing
- Avoid over-exposure

Insect Repellent Wristbands (For Maintenance, Repair and Operations Personnel – Commercial/Military)



Green - P/N 85085

Glow-in-the-Dark - P/N 85086

Pink - P/N 85087

Red - P/N 85088

Yellow - P/N 85089

Blue - P/N 85090

All wristbands are sold in a 3 pack.

Vapors from the insect repelling wristband form a protective shield around the immediate area, keeping insects a safe distance away. Natural & Effective, made with naturally derived geranoil. Use just enough repellent to cover exposed skin and/or clothing. Do not use under clothing.

Features

- DEET Free
- Water Resistant – The wristband just keeps working, up to 120 hours
- Packaged in a reusable plastic “pod” to store the wristband, it can be sealed between uses to preserve the active life of the product

Applications

- Repels mosquitoes, flies, gnats, and no-see-ums
- A good choice for recreational and lighter-duty applications
- Can be worn on belt loops, hatbands, fastened in tents, or applied to other areas
- Designed with a patented break-away strap that snaps if it becomes entangled



Insecticides



Fire Ant & Insect Dehydrator (Powerful, long-lasting insecticide)

Part #74269 – 3.5 oz.

Red Lion™ Fire Ant & Insect Dehydrator contains the quick-killing botanical insecticide, pyrethrum, an extract of the chrysanthemum flower. Kills insects on contact.

Features

- Provides effective control of insects upon direct contact with an added benefit of flushing these insects to aid in a more complete kill
- Silicon dioxide provides long term control through a desiccating (drying) action
- Kills insects up to 6 months from initial application

Kills

- | | | |
|--------------------------|-------------------|-----------------|
| • Ants | • Cockroaches | • Palmetto Bugs |
| • Carpenter Ants | • Carpenter Bees | • Scorpions |
| • Fire Ants | • Centipedes | • Silverfish |
| • Pharaoh Ants | • Crickets | • Spiders |
| • Bedbugs | • Earwigs | • Ticks |
| • Beetles | • Firebrats | • Termites |
| • Confused Flour Beetles | • Fleas | • Waterbugs |
| • Carpet Beetles | • Hornets / Wasps | • Weevils |
| • Red Flour Beetles | • Lice | |
| | • Dust Mites | |

Ant and Roach Spray

Part #74163 – 11.75 oz.

(Fast acting, long-lasting indoor / outdoor use)

Provides rapid control of houseflies, mosquitos, small flying moths (millers), gnats, wasps and accessible stages of roaches, ants, water bugs, silverfish, flour beetles, weevils, grain mites and spiders. In hospitals, patients should be removed from room prior to treatment. Room should be ventilated two hours after spraying. Do not return patients to room until after ventilation.

Features:

- Evercide® insecticide
- For rapid control of common pests and insects
- For indoor and outdoor use
- Can be used on bedding and carpeting
- Lasts up to 42 days

Applications:

For use in the home and food and non-food areas of:

- Food Processing Plants • Schools • Warehouses • Office Buildings • Theatres
- Garages • Hotels • Motels • Kennels • Hospitals and Other Listed Areas



Insecticides



Wasp and Hornet Killer

Part #74161 – 12 oz.

(Powerful, fast-acting insecticide)

Triple action formula kills wasps, hornets and yellow jackets. Instant knockdown. Kills with residual action as wasps and hornets return to the nest. Sprays up to 20 feet. Dielectric breakdown voltage of 33,000 volts.

Features:

- Instant knockdown
- Triple action formula
- Kills wasps, hornets and yellow jackets
- Dielectric breakdown voltage of 33,000 volts
- Accurate stream penetrates deep into hard-to-reach nests

Applications:

For use in the home and non-food areas of:

- Schools • Warehouses • Office Buildings
- Theatres • Garages • Hotels • Motels
- Kennels • Hospitals and Other Listed Areas

NOTE: Do not use in commercial food/feed handling establishments, restaurants or other sites where food/feed is commercially prepared or processed. Do not apply to pets or contaminate feed, foodstuffs, dishes or utensils.



Bedbug Killer

P/N 74485 – 10 oz.

(For a good night's sleep... Rest Ezzzzzzzzzzzz)

Controls bedbugs on wood, ceramic surfaces, fabrics and carpet for up to 2 weeks. For use on all water-safe fabrics and surfaces. Will not stain fabrics.

Features:

- Kills bedbugs and their EGGS, fleas, dust mites, ticks and lice on contact
- For use on all water-safe fabrics and surfaces
- Will not stain
- Ease and convenience of aerosol application
- Extension tube for hard to reach areas, cracks and crevices
- Long lasting, keeps killing up to 2 weeks

Applications:

- For use on mattresses, wood furniture and carpet

Lubricants



4-Way Plus

Part #74107 – 18 oz.

(Multi-purpose lube and penetrant with high dielectric strength)

Specially formulated to displace moisture on wet ignition systems, electric motors and equipment. (electrical power must be off). Frees frozen parts, protects metal prior to storage and prevents rust and corrosion.

Features:

- Displaces moisture
- Dries wet ignitions
- Frees rusted parts
- Prevents rust
- Stops squeaks
- Provides moisture barrier
- Meets government specifications MIL-C-16173D and W-L-800C

Applications:

- Rust preventative for metal parts in machine shops: tools, equipment and similar surfaces
- Tractors, bicycles, cranes and vehicles
- Electrical systems, generators, alternators and starters

.....



Blue Grease

Part #74435 – 14 oz. cartridge

Part #74436 – 5 gallon pail

Part #74437 – 15 gallon pail

Part #74438 – 50 gallon drum

(Calcium Sulfonate complex industrial grease)

Premium grade, calcium sulfonate complex industrial grease is designed for extended service life and is recommended for multi-application usage in even the most severe applications across all industries. Due to Blue Grease's completely shear stable thickener it has superior rust, corrosion and oxidation resistance while offering the highest level of EP and load carrying performance obtainable. Blue Grease meets and exceeds the highest automotive service classification (GC-LB) and makes an excellent grease for extended service life in all types of high temperature, extreme pressure agricultural, construction, hauling, mining, logging, and steel mill applications.

Features:

- Superior quality Calcium Sulfonate Complex grease
- Unmatched EP Protection 65 Timken, 620 Weld Point
- Longest re-lubrication intervals will not harden, thin or washout
- Considered waterproof by industry standards
- Maximum operating temps -30°F to 425°F
- Completely heavy metal free and harmful additive free, contains no antimony, barium, chlorine, lead, or zinc

Applications:

- | | |
|----------------------------|------------------------|
| • Electric Motor Bearings | • Universal Joints |
| • Ball and Roller Bearings | • Bucket Pins |
| • Gear Motors | • Slides & Ways |
| • Anti-Friction Bearings | • Shakers |
| • King Pins | • Marine Applications |
| • Pillow Blocks | • Power Plants |
| • Wheel Bearings | • Soot Blowers |
| • Kiln Cars | • Exhaust Fan Bearings |
| • Fifth Wheel | • Truck Chassis |

Lubricants



Cable & Chain Core Lube

Part #74151 – 14 oz.

(Dry film lube for moisture and saltwater resistance)

Provides protection for metal surfaces in the presence of heat, friction and stress. The moly coats the metal strands of wire rope and metal links or chains to reduce friction and wear. It extends the life of equipment by preventing metal corrosion. The ultimate protection against rust.

Features:

- Provides ultimate protection
- Penetrates to core of wire
- Forms a thin, dry film
- Won't attract dirt or dust
- Resists extreme moisture

Applications:

- For use on wire ropes and cables, metal links and chains

.....



Chain Lube

Part #74119 – 17.75 oz.

(Penetrating lubricant)

Unique foaming formula allows for super penetration without "sling off", even at high speeds. Affords full protection for metal-to-metal moving parts. Material will not fly off or break down and is recommended for any climatic conditions.

Features:

- Lubricates and penetrates
- Withstands high and low temperature changes
- Repels dirt and sand
- Extends chain life by reducing friction
- Resists "sling off"

Applications:

- Excellent for use on chain saws, sprockets, cutter bars, clippers, link and roller chains, etc.
- Increases chain and sprocket life by reducing friction.

Lubricants



Dielectric Grease

Part #74439 – 3 oz.

(Silicone compound improves connections)

Silicone compound designed to provide excellent dielectric and lubricating properties for electrical connections. Also ideal for use as an o-ring lubricant. Wide temperature range of -40°F to 500°F.

Features:

- High dielectric strength of 400 volts/mil prevents voltage leaks, insuring superior performance in ignition systems and electrical applications
- Excellent lubricant for rubber, plastic and ceramics making installations faster, easier and more efficient
- High water and oxidation resistance prevents corrosion in even the most extreme environments
- Radiation resistant for use around radiation equipment and microwaves

Applications:

- Use in electrical terminals, lubrication and sealing of rubber, o-rings and brass components and can also be used for lubrication of plastic threads and gears.

SPECIFICATIONS:

Color	Translucent White
Temperature Range.....	-40°F to 500°F
Penetration, unworked.....	190-220
Worked 60 maximum	
Bleed, 24 hrs/200°C (392°F)	260
Percent maximum.....	2%
Melting point	no melt
Specific gravity @ 25°C (77°F)	1.05
FDA Recognition, 21 CFR 175.3000	yes
Electrical Dielectric Constant @ 100 Hz	2.80
..... @ 100 kHz.....	2.80
Dissipation factor @ 100 Hz.....	.0006
..... @ 100 kHz.....	.0005
Dielectric strength, volts/mil, 50 mil gap.....	400
Volume resistivity, ohm-cm @23°C (73°F) 1 x 10 ¹⁵	
Arc resistance, seconds	118



Clear Lube

Part #74137 – 13 oz.

(Transparent, high pressure lubricant)

Unique, transparent grease resists high temperatures and pressures while providing superior lubrication and corrosion protection. Operating temperature range of -35°F to 530°F.

Features:

- Transparent formula – Superior lubrication
- High adhesive strength
- Resists "wash-out"
- Prevents corrosion
- 360° valve sprays at any angle

Applications:

- Ideal for use on door hinges, open gears, wire ropes and cables, chains, sprockets and anywhere conventional greases or lubricants are used.



Zoom Spout® Oiler

Part #74255 – 4 fl. oz.

(Premium grade, all purpose, turbine grade, lubricating oil)

The finest all purpose oil. Telescoping spout reaches everywhere.

Features:

- Flexible telescoping spout with 7" extension for difficult to reach areas

Applications:

- Rotating equipment
- Reciprocating equipment
- Bearings
- Motors
- Slides

Lubricants



Lithium Grease White – Cartridge Part #74428 – 14 oz.
(Premium grade industrial grease)

Specially designed to meet the ever-increasing requirements for high film strength, higher operating temperatures, greater stability and longer lubricant life. The tough protective film ensures superior lubrication and extended lubrication intervals. This shear stable, noncorrosive, extreme pressure, water resistant lubricant is used for both plain and anti-friction bearings, gears, cams and slides. It is also highly recommended as a bearing lubricant for electrical motors, spindles and other mechanical devices when low torque, moderate speeds and long life are essential.

Features:

- Anti-Corrosive • Non-Staining • Water Resistant
- Superior Performance at Temperatures of 0°F to 325°F
- Extreme Pressure 65 Lb. Timken Load • EP Additives

Applications:

Ideal for use on:

- Wheel Bearings • Chassis Points • Ball Joints
- Slides • Rollers • Hinges • Small Gears
- Overhead Tracks • Construction Equipment • Mining
- Logging • Marine Applications • Industrial Applications

SPECIFICATIONS:

Drop Point (ASTM D-2265) ...	390°F (199°C)
Specific Gravity.....	0.95
Density (lb./gal.).....	8.1
Temp. Range .0°F to 325°F (-18°C to 163°C)	
Timken EP Test	
(ASTM D-2509)	65 lbs., Typical
Base Oil Viscosity.....	ISO 220, Typical
NLGI Rating.....	2
Meets or exceeds requirements of U.S. Military Specification MIL-G-18458B (SH).	



High-Temp Grease – Cartridge **Part #74422 – 14.5 oz.**
(High temperature, high purity, synthetic lubricant)

A superior quality, high-performance synthetic grease specially formulated for extremely high temperature applications. Assures minimal friction and maximum corrosion protection. Ideal for all high temperature applications requiring superior lubricity and long service life. USDA accepted for use in federally inspected meat and poultry plants. USDA accepted Classification H1.

Features:

- High-purity synthetic grease
- Extremely effective in high temperatures
- Resists water, acids, alkalis and salts
- USDA accepted
- Waterproof

Applications:

- Ideal for all high temperature applications requiring superior lubricity and long service life

SPECIFICATIONS:

Temp. Range.....	-65°F to 500°F (-54°C to 260°C) Continuous
	-65°F to 550°F (-54°C to 288°C) Intermittent
NLGI Grade (ASTM D1092).....	2
Timken OK Load (ASTM 2509)	40 lbs.
Dropping Point (ASTM D566).....	Non-melt
Shelf Life.....	>10 years
Color.....	Translucent White
Odor.....	None
Penetration, Unworked (ASTM D217)	280mm/10
Four Ball EP Test (ASTM D2596)	
Load Wear Index	42.53 kg
Weld Point	200 kg
Four Ball Wear Test (ASTM D2266) Scar Dia.	0.50mm
Salt Spray Test (ASTM B117)	Pass
Dielectric Loss (ASTM D924)	1.2×10^{12}
Dielectric Resistivity (ASTM D1169).....	1.7×10^{14}
Dielectric Constant (ASTM D924)	2.5
Oil Separation (ASTM D1402).....	None
Evaporation Loss (ASTM D972) 22 hrs @ 212°F (100°C) <1%	
Oxidation, Stability 100 hours (ASTM D942).....	Pass

Lubricants



Low-Temp Grease – Cartridge

Part #74420 – 14.5 oz.

(Low temperature, high purity, synthetic lubricant)

A superior quality, high-performance synthetic grease specially formulated for extremely low temperature applications. Assures minimal friction and maximum corrosion protection. Ideal for all bearing, chassis and equipment applications in low to medium temperatures. Also excellent for use in and on refrigeration / freezer units. USDA accepted Classification H1.

Features:

- High-purity synthetic grease
- Effective in extremely low temperatures
- Resists water, acids, alkalis and salts
- USDA accepted
- Waterproof

Applications:

- Ideal for all bearing, chassis and equipment applications in low to medium temperatures
- Also excellent for use in and on refrigeration / freezer units

SPECIFICATIONS:

Temp. Range	-65°F to 300°F (-54°C to 149°C) Continuous
	-65°F to 400°F (-54°C to 204°C) Intermittent
NLGI Grade (ASTM D1092)	2
Timken OK Load (ASTM 2509)	40 lbs.
Dropping Point (ASTM D566)	Non-melt
Shelf Life	>10 years
Color	Translucent White
Odor	None
Penetration, Unworked (ASTM D217)	280mm/10
Four Ball EP Test (ASTM D2596)	
Load Wear Index	42.53 kg
Weld Point	200 kg
Four Ball Wear Test (ASTM D2266) Scar Dia.	0.50mm
Salt Spray Test (ASTM B117)	Pass
Dielectric Loss (ASTM D924)	1.2 x 10 ¹²
Dielectric Resistivity (ASTM D1169)	1.7 x 10 ¹⁴
Dielectric Constant (ASTM D924)	2.5
Oil Separation (ASTM D1402)	None
Evaporation Loss (ASTM D972) 22 hrs @ 212°F (100°C) ..	<1%
Oxidation, Stability 100 hours (ASTM D942)	Pass

Dry Lube Plus

Part #74099 – 12 oz.

(A greaseless, high performance lubricant that dries to a non-oily film)

Ideal for use on delicate mechanisms; will not build up and resists attracting dust and dirt.

Features:

- 4-in-1 action makes it highly versatile
 - Penetrates, lubricates, displaces moisture and prevents light corrosion
- The next generation chemistry contains no chlorinated solvents or ozone depleters
- Flash point 175°F with CO₂ propellant and a 360° spray valve for easy use in any position
- Non-aggressive formula is safe for use on most plastics and painted surfaces
- Nonconductive to 38,000 volts for use around live equipment
- Meets or exceeds MIL-C-23411A - Paragraph 3.1.1, and 3.2-3.11

Applications:

- Excellent choice for virtually any general-purpose need
- Additional uses include high heat environments (up to 500°F) including use as a release agent in molding processes



Lubricants



Moly Dry Lube

Part #74123 – 14 oz.

(High temperature, high pressure, dry film lube)

A thin, quick drying film gives long lasting protection to all moving and sliding parts. Reduces friction at all contact points preventing galling, seizing and metal-to-metal wear. Protects surfaces from moisture, rust, corrosion and also resists attack by oil, grease, water, most chemicals and acids.

Features:

- Lubricate and protects
- High pressure lube 200,000 psi
- Wide temperature range -100°F to +700°F
- Waterproof and dustproof
- Super slick
- Non-corrosive

Applications:

- Used to protect all moving and sliding parts
- Use when lubrication is essential in tight fitting, high temperature and high pressure applications



Penetrating Oil with Graphite

Part #74101 – 14.75 oz.

(Frees rusted parts)

Penetrates deeply to free countersunk threads and prevent breakage of frozen parts. Cuts rust, red or white lead, tar, dirt, grease, deposits of carbon, graphite, etc. Will not harm basic metals, rubber or paint.

Features:

- Frees rusted nuts and bolts in seconds
- Prevents oxidation
- Resists salt water corrosion
- No water wash-out
- All position valve

Applications:

- Used for freezing frozen metal parts, lubricating air driven tools, dismantling equipment and removing broken taps and dies.



Pneumatic Tool Anti-Seize Lubricant

Part #974375

32 fl. oz.

(Superior lubricant for oilers in pneumatic lines)

Formulated to meet the special requirements of industrial, household and agricultural tools. It absorbs water and eliminates ice buildup and frost in air tools. A blend of rust and corrosion inhibitors and a special base fluid oil minimizes tool wear and allows operation of air tools at temperatures as low as -40°F. Works on all types of pneumatic equipment and gives worn tools new life.

Features:

- Wide temperature range -40°F to 350°F
- Prevents rust and corrosion
- Less friction, wear, heat and noise
- Protects against corrosion
- Absorbs moisture, eliminates ice buildup and frost in air tools

Applications:

Ideal for use on:

- Air Impact Tools • Drills • Grinders • Screwdrivers • Sanders • Percussion Tools
- Household Shop Tools • Air Line Lubricators • All Air Tools Using Oil Lubrication

Lubricants



Pro Pull™ Wire Pulling Lube

Part #74421 – 32 fl. oz.

(Superior lubrication for wire and cable pulling, dries clean, food grade)

An exclusive formulation that provides a clean, super-slick surface allowing cable to be pulled with minimum friction. Compatible with polyethylene, polypropylene, PVC, neoprene and polyurethane cable jacketing materials used in the manufacture of power, telephone and fiber optic cable. This non-staining formula evaporates completely, leaving no messy residue. Can be used in temperatures as low as -13°F (-25°C). USDA accepted for use in federally inspected meat and poultry plants. Classification H1.

Features:

- Superior lubrication for all wire pulling applications
- Performs in extreme temperatures
- Coats evenly
- Dries clean and tack free
- Compatible with most materials

Applications:

- Used in the installation of power, telephone and fiber optic cable

SPECIFICATIONS:

Characteristic	Temp Stability 80°C/24 hours	Room Temp. (21°C)
A) Expansion	Transient 4.5%	None
B) Viscosity	Estimated 10% dec.	
C) Color/Appearance	Orange/Clear	Orange/Clear
D) Separate	None	None
E) Coating Factor (Cling Factor)		
a) Vertical	50-57%	61-65%
b) Horizontal	52-60%	64-69%
F) Rate of Evaporation % / Minute	0.0874	0.0521
G) Coefficient of Friction		
a) Static	0.0140	0.075
b) Dynamic	0.096	0.070
H) Residue (% Solids)	6.80 +/-0.1	6.80 +/-0.1
I) pH	6.80 +/-0.1	6.80 +/-0.1
J) Flammability	Nonflammable	Nonflammable
K) Compatibility with Cable and Conduit Materials	No Incompatibility Demonstrated	No Incompatibility Demonstrated



PTFE Dry Lube

Part #74116 – 11 oz.

(Multi-purpose dry lube and release agent)

Cryogenically processed PTFE coats surfaces quickly and easily. Resistant to virtually all chemicals and solvents. Ideal for use on all machine parts and textile equipment as a universal, dry non-staining lubricant. Excellent as a release agent for rubber, nylon, foams, acrylics, plastic, polyurethane, plaster, filament windings, epoxies, metal molds, phenolics, prepreg fabrication, polystyrene, encapsulating, epoxy potting and rubber molding. Safe for use on most metal, plastic, wood, glass, rubber and paper.

Features:

- Dry, non-staining lubricant
- Excellent release agent
- Ideal for use on machine parts
- Effective from -40°F to +500°F
- Does not attract dust

Applications:

- Ideal for use on all machine parts and textile equipment as a universal, dry non-staining lubricant.
- Excellent as a release agent for rubber, nylon, foams, acrylics, plastic, polyurethane, plaster, filament windings, epoxies, metal molds, phenolics, prepreg fabrication, polystyrene, encapsulating, epoxy potting and rubber molding.

Lubricants



Red Grease Hi-Temp

Part #74415 – 11 oz.

(All-purpose, water washout resistant lube)

A multi-purpose lubricant that provides extra protection under extreme pressures. Resists thinning under high pressure and returns to a thick, gel-like consistency after exposure to high temperatures. This product is waterproof, making it ideal for exposed bearing hinges, cables, pulleys, gears, linkages and springs. Working temperature range -40°F to +575°F.

Features:

- Multi-purpose heavy duty lubricant
- Resists water, acids, salts and alkaline chemicals
- Effective at high temperatures
- Penetrates as a liquid
- Congeals to a thick grease

Applications:

- Used on all bearings, motors shafts, roller chains, hitches, bearing surfaces, cables, pulleys, hinges, rollers, cams, couplings and bushings.

Red Grease II – Cartridge

Part #74402 – 14 oz.

(All-purpose, high temperature, extreme pressure grease)

An all purpose non-melt grease especially formulated with extreme pressure and anti-wear additives to provide heavy duty service. It is one of very few greases able to withstand heavy shock load and impact pressures of 65 Timken load capabilities. Red Grease II has excellent adhesive and cohesive properties. It resists most acids, weather, dirt, salts, spray, steam and oxidation. Our product protects equipment indoors or outdoors even under high temperatures and heavy loads. Penetration is 250-270 (ASTM D-217).

Features:

- All purpose heavy duty lubricant
- Resists water, acids, salts, rust and alkaline chemicals
- Non-melt – effective at temperatures of up to 550°F
- Load carrying capabilities: 65 Timken Load
- NLGI 2 to 2.5

Applications:

Ideal for indoor and outdoor equipment used in:

- Automotive • Farms • Bottling Plants • Cotton Gins • Sugar Cane Mills
- Dairies • Paper Mills • Industrial • Marine • Oil Fields • Steel Mills
- Air Conditioning • Elevators • Textile Plants • Construction • Mining
- Aircraft • Lumber Mills • Cement Plants • Food Plants • Sewage Plants



Red Grease III

Part #74404 – 7 lbs.

Part #74408 – 45 lbs.

Part #74410 – 120 lbs.

(All-purpose, high temperature, extreme pressure grease)

An all purpose heavy-duty non-melt lubricant specially formulated with extreme pressure and anti-wear additives. Red Grease III has excellent adhesive and cohesive properties. It resists and protects indoor and outdoor equipment from most acids, weather, dirt, salts, steam, oxidation, high temperatures of up to 550°F, heavy loads and impact pressures of 65 Timken load capabilities. Penetration is 250-270 (ASTM D-217).

Features:

- All purpose heavy-duty lubricant
- Resists water, acids, salts, rust and alkaline chemicals
- Non-melt – effective at temperatures of up to 550°F
- Load carrying capabilities: 65 Timken Load
- NLGI 2 to 2.5

Applications:

Ideal for indoor and outdoor equipment used in:

- Air Conditioning • Aircraft • Automotive
- Bottling • Cement • Construction
- Elevators • Farms • Food • Industrial
- Lumber • Marine • Paper • Sewage • Steel



Lubricants



Silicone

Part #74108 – 12 oz.

(All-purpose lubricant)

Red Lion Silicone prevents freezing and eliminates sticking on doors, windows, locks and latches. Lubricates and prevents sticking on conveyors. Lubricates without gumming and will not stain or bind. Protects and waterproofs wiring. Helps prevent electrical losses. Aids in preventing rust on chrome, electrical systems, switches, and helps prevent corrosion on batteries. Authorized by the USDA for use in federally inspected meat and poultry plants. Classification H1.

Features:

- Eliminates squeaks and sticking
- Lubricates, preserves and insulates
- Rustproofs and waterproofs
- Prevents freezing

Applications:

- Can be used on doors, windows, locks and latches
- Excellent for use on rubber
- Protects and waterproofs wiring
- Prevents sticking on conveyors



Super Impact Grease – Cartridge

Part #74400 – 14 oz.

(Multi-purpose, extreme pressure and impact resistant grease)

This multi-purpose grease is fortified with special additives enabling it to withstand the heavy impact and pounding common with heavy equipment. Our special additive package allows the grease to stay in place and not spatter or pound out of the bearing or fitting.

Features:

- All-purpose heavy-duty lubricant
- Resists water, acids, salts and alkaline chemicals
- Non-melt – effective at temperatures up to 550°F
- Load carrying capabilities 65 Timken load
- NLGI 2
- Temperature range 0-425°F

Applications:

- Chassis • Wheel Bearings • Bearings • Motors • Shafts
- Automotive and Industrial Equipment



TFG Grease – Cartridge

Part #74406 – 14 oz.

(Multi-purpose, Teflon® fortified, extreme pressure & impact resistant grease)

A multi-purpose grease specially formulated to operate in extreme conditions of heat, moisture, acid and alkali. Fortified with PTFE, provides added protection against shock loads and impact pressures. By preventing metal-to-metal contact and supplying added lubricity and slipperiness, this product will substantially reduce friction and wear.

Features:

- Multi-purpose fortified with PTFE
- Operating temperature 0°F to 400°F (intermittent to 450°F)
- Resistant to moisture, heat, acid and alkali
- Will not melt or run out regardless of temperature
- Excellent water resistance and metal adhesion

Applications:

- Added lubricant protection from very low to high temperatures makes this non-melt, water-resistant grease perfect for ball and roller bearings, wheel bearings, king pins, cranes and sleeve bearings.

Lubricants



White Grease Lubricant

Part #74104 – 14 oz.

(Multi-purpose, H1 lithium lubricant)

Clings to bearing and gear surfaces and is highly resistant to "sling-off". Provides anti-rust and moisture barrier. Will not stain or discolor. Covers a wide temperature range from 35°F to 270°F. Authorized by the USDA for use in federally inspected meat & poultry plants. Classification H1.

Features:

- Superior anti-rust and moisture barrier, and is effective over a wide temperature range
- Non-staining
- Won't wash or sling off
- Classification H1

Applications:

- Ideal for bottling, canning, packaging, conveyor, automotive and construction equipment
- Extremely effective on latches, hinges, striker plates, pulleys, chains, etc.

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White Grease

Part #74100 – 11 oz.

(Multi-purpose lithium lubricant)

This products is white lithium grease in a convenient, easy-to-use aerosol can. It is an exceptional coating for the prevention of rust and corrosion. In addition, this PTFE fortified, durable, nonstaining lubricant provides superior friction reduction between similar or different materials than other competing brands. Will not run, wash off, or freeze and does not gum or cake. Use this product on battery terminals, brake cables, distributor caps, latches, hinges, bolts, locks, antennas, equipment, tools, tracks, glides, bearings, rollers, buckles, shackles, winch gears, and other external moving parts or exposed surfaces. This next generation product is formulated without chlorinated solvents or ozone depleters.

Features:

- Superior anti-rust and moisture barrier
- PTFE fortified
- Non-staining
- Will not run, wash off, or freeze and does not gum or cake

Applications:

- Packaging industry, automotive field, marine and aircraft maintenance
- Ideal for battery terminals, brake cables, distributor caps, latches, hinges, bolts, locks, antennas, equipment, tools, tracks, glides, bearings, rollers, buckles, shackles, winch gears, and other external moving parts or exposed surfaces

Lubricants



Cutting Oil III

Part #74172 – 16.75 oz.

(Lube for drilling, tapping and threading operations)

Special formula provides lubrication for faster, more convenient cutting operations and longer tool life. Authorized by the USDA for use in federally inspected meat and poultry plants.

Features:

- Specially formulated lubricant provides a cleaner, smoother cut
- Effective on most metals
- Extends tool life

Applications:

- Specially formulated for all drilling, cutting, tapping and threading operations.
- Excellent on high strength and exotic metals. *(Not for use on aluminum).*

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Toolube™

Part #74523 – 8 fl. oz.

(Cutting Tool Lubricant)

A specialized lubricant designed for tough metal-working operations on hard metals such as stainless, high carbon, high chrome, nickel-chrome, heat-treated steels, cast iron, monel and even non-ferrous metals like brass and aluminum. This compound contains no oil and eliminates the difficult cleaning problems associated with white lead, molybdenum and similar materials. It does not contain chlorine, fluorine, lead, sulfur, phosphorous, silicone, nitrates, chromates, mercury or formaldehyde base compounds.

Features:

- For tough metalworking jobs
- Contains no oils
- Easy cleanup
- Environmentally safe

Applications:

- Ideal for use in drilling, tapping, sawing, spot facing, counterboring, milling, fly-cutting, seat forming, engraving, broaching, drawing, piercing, punching, hole extruding and many other applications

Lubricants



Tool Cool II (Cutting Fluid)

Part #74185 – 17 oz.

Special formula provides a combination of lubrication and chemical cooling action for faster, smoother cutting operations and longer tool life. Use for all drilling, cutting and tapping applications. A must with high strength and exotic metals. Not for use on aluminum.

Features:

- Instantly lowers temperature – for faster cutting and longer tool life
- Unique lubricating properties – assures cleaner, smoother cutting
- Multi-purpose – for use in all drilling, tapping and threading applications
- Nonflammable – for increased safety
- Fast evaporation – minimizes clean-up
- Contains no 1,1,1-trichloroethane or ozone depleting chemicals – won't damage ozone

Applications:

- For use in all drilling, cutting and tapping operations

Cutting Wax (Cutting Tool Lubricant)

Part #74559 – 2 oz.

Part #74560 – 16 oz.



Specially formulated multi-purpose cutting wax. For faster, smoother cutting operations and longer tool life. Use for all drilling, cutting and tapping applications.

Features:

- Continuous shield against friction and heat
- Especially effective on stainless steel, aluminum and many exotic alloys
- Extends tool life and reduces chip welding
- Reduces tool costs and work piece scrap
- Provides a precision finish with closer tolerances on your finished work
- Nonflammable – for increased safety

Applications:

- For use in all drilling, cutting and tapping operations



Lubricants



Anti-Seize (w/Colloidal Copper Compound) Part #74118 – 12.5 oz. (Multi-purpose, threaded fastener lubricant, high temperature resistance)

The colloidal copper compound prevents seizing, galling and pitting under adverse conditions of extreme temperatures and pressures. Provides excellent lubricity, assuring more accurate torquing and easy disassembly of bolts, nuts, studs, etc. Protects parts from rust and corrosion. Useful temperature range from -300° to 1,800°F.

Features:

- Prevents galling and seizing up to 1,800°F
- Seals and waterproofs threaded parts
- Prevents rust and corrosion
- Meets mil spec A-907(D)

Applications:

For use in the home and food and non-food areas of:

- Food Processing Plants • Schools • Warehouses • Office Buildings • Theatres
- Garages • Hotels • Motels • Kennels • Hospitals and Other Listed Areas

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Anti-Seize Aluminum (Multi-purpose, threaded fastener lubricant, high temperature resistance)

Part #74423 – 6 oz. Pressurized Can
with Easy Applicator Top
Part #74425 – 16 oz. Brush Applicator Cap

This high quality lubricant depolymerizes and dissipates at temperatures above 400°F without a carbon residue, having a dry film of aluminum and graphite to plate and protect metal surfaces to temperatures of 1,800°F (980°C). It contains no lead or copper and has a synthetic, non-melting carrier.

Features:

- Water resistant
- Prevents seizing and galling
- Reduces friction
- Protects against rust and corrosion
- Easy applicator top pressure can (P/N 74423) eliminates contamination of contents – simply press to dispense

Applications:

- All threaded metal assemblies where anti-seize protection is desired. Use on bolts, fittings, flanges, gaskets, keyways, nuts, plugs, studs, unions, valves, etc.
- Ideal for ovens, heat trolleys, kilns, stokers or any threaded parts exposed to high temperatures.

Lubricants



Anti-Seize Pro-Lube Aluminum/Copper Compound (Brush Applicator Cap)

Part #74424 – 3.75 oz.

Aluminum/Copper Compound in a special semi-synthetic carrier. It leaves a protective film that seals and protects metal parts even under extreme conditions, such as heat, pressure, steam and saltwater exposure.

Features:

- Heavy Duty Industrial-Strength
- Anti-Seize & Lubricating Paste
- Protects to +2000° F
- Reduces Torque
- Prevents Rust & Corrosion
- Excellent Lubricity
- Prevents Galling & Seizing
- Steam & Water Proof
- Chemical Resistant
- Extreme Pressure Lubricant
- Non-Melting
- Meets MIL SPEC MIL-A-907E

Applications:

For Marine, Metal Working, Oil Field, Automotive, Construction and Farm Work Applications, such as:

- Threaded Fittings
- Rig Drives
- Sprockets and Chains
- Casting Equipment
- Valve Shafts

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Anti-Seize II – Copper Compound (Brush Applicator Cap)

Part #74426 – 8 oz.
Part #74407 – 16 oz.

This blend of lubricating solids prevents seizing and galling of metal parts and threaded connections exposed to harsh environments, high and low temperatures and other severe conditions. The active ingredients are copper, graphite and a petroleum lubricant. Red Lion Anti-Seize II withstands pressure conditions over 3,000 p.s.i. and is compatible with all metals and most plastics. It improves assembly and disassembly. Allows reuse of damaged threaded parts and will not harden, drop or separate.

Features:

- Protects against rust and corrosion
- Prevents thread damage, seizure, galling and heat-freeze up to 1,800°F (982°C)
- Enhances and protects most electrical connections
- Lowers friction
- Reduces torque
- Meets military specifications MIL-A-907

Applications:

- All nuts, bolts, bushings, centers, cam rollers, chains, slow moving bearings, compressors, conveyors, couplings, dies, drills, drives, liftings, gaskets, gears, generators, joints, keyways, motors, packings, plugs, press fits, pumps, shafts, sleeves, slides, spark plugs, studs, taps, unions, valve stems, wristpins and more.

Lubricants



C5-A® Copper Anti-Seize Stick – Copper

Part #74565
0.70 oz. / 20 gm

Features:

- Protect metal parts in high heat environments up to 1800°F
- Prevent rust, corrosion, seizing and galling
- Eases disassembly
- Reduce friction and wear to critical parts
- Buttery texture ideal for both coarse and fine threads
- Exceptional lubrication properties

Applications:

- Copper, brass, cast iron and all alloys, all plastics and all non-metallic gasket materials
- Bolts, bushings, pipes, fittings, flanges, gaskets, headers, manifolds, nuts, studs, etc.
- High heat ovens, crane assemblies, turbine studs, coal crushers, casting and molding equipment and heat exchangers



Silver Grade Anti-Seize Stick – Silver

Part #74566
0.70 oz. / 20 gm

Features:

- Protects metal parts in high heat environments up to 1600°F
- Prevents rust, corrosion, seizing and galling
- Eases disassembly
- Reduces friction and wear to critical parts
- Buttery texture ideal for both coarse and fine threads
- Exceptional lubrication properties

Applications:

- Stainless steel and aluminum. Can also be used on copper, brass, cast iron and all alloys, all plastics and all non-metallic gasket materials
- Bolts, bushings, pipes, fittings, flanges, gaskets, headers, manifolds, nuts, studs, etc.
- High heat ovens, crane assemblies, turbine studs, coal crushers, casting and molding equipment and heat exchangers



Freezing Action Penetrant (Frees rusted and frozen parts)

Part #74556 – 9 oz.

This product represents the latest breakthrough in penetrating lubricant technology. By combining rapid freezing action with an advanced, rust eating formula, seized or rusted parts are easily released. Shrinkage of sprayed parts quickly breaks open micro fine fissures allowing the lubricant to easily penetrate even the toughest rust. Red Lion Freezing Action Penetrant then dissolves rust making the job a snap and future maintenance easier as well. This formula contains NO chlorinated solvents or ozone depleters and is nonconductive to 33,000 volts for use around live equipment. The 360° spray valve allows for use in any position and for access to hard-to-reach areas while the large pad actuator prevents freezing of fingertips. This is an ultra-low VOC content product.

NOTE: Sudden temperature drop can result in "thermal shock" which may cause crazing of some plastics and paint. While appropriate for use on many plastics and painted surfaces, always test in an inconspicuous area before general use. Accumulated vapors from this product may reach ignition conditions in confined spaces. Always use with adequate ventilation.

Features:

- Advanced formula penetrating lubricant
- Freezing action breaks open rust barrier
- Innovative rust eating technology dissolves rust
- Nonconductive to 33,000 volts
- Ultra low VOC content – no chlorinated solvents – no ozone depleters

Applications:

- Ideal for use in the most demanding penetrating lubricant applications including rusted manifold bolts, exhaust flanges, industrial, marine, farm, or other outdoor exposed equipment.
- Ideal for use in: factories, fleet maintenance centers, muffler shops, marine repair, and virtually anywhere assembly/disassembly is performed.

Lubricants



PAG 46 (A/C Lubricant)

Part #74391 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant. Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
 - ISO Viscosity 46
 - For R134a A/C Systems
 - Premium Double End Cap
-



PAG 100 (A/C Lubricant)

Part #74392 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant. Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
 - ISO Viscosity 100
 - For R134a A/C Systems
 - Premium Double End Cap
-



PAG 150 (A/C Lubricant)

Part #74393 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant. Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
- ISO Viscosity 150
- For R134a A/C Systems
- Premium Double End Cap

Lubricants



PAG 46 With UV Dye (A/C Lubricant)

Part #74386 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant.
Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
 - ISO Viscosity 46
 - For R134a A/C Systems
 - UV Dye For Leak Detection
 - Premium Double End Cap
-



PAG 100 With UV Dye (A/C Lubricant)

Part #74387 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant.
Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
 - ISO Viscosity 100
 - For R134a A/C Systems
 - UV Dye For Leak Detection
 - Premium Double End Cap
-



PAG 150 With UV Dye (A/C Lubricant)

Part #74388 – 8 oz. / 236 ml

For mobile air conditioning systems using R134a refrigerant.
Do not use this product in any other A/C systems. Use only in applicable compressors.

Features:

- Synthetic Refrigerant Oil (Polyalkylene Glycol) Plus Additives
- ISO Viscosity 150
- For R134a A/C Systems
- UV Dye For Leak Detection
- Premium Double End Cap

Lubricants



POE 100

(A/C Lubricant)

For mobile air conditioning systems using R12 or R134a refrigerant. Do not use this product in other A/C systems. Use only in applicable compressors

Features:

- Polyol Ester Refrigerant Oil
- ISO Viscosity 100
- For R12 and R134a A/C Systems
- Premium Double End Cap

Part #74394 – 8 oz. / 236 ml

Part #74395 – 1 Quart / 32 oz. / 946 ml

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POE 100

With UV Dye

(A/C Lubricant)

For mobile air conditioning systems using R12 or R134a refrigerant. Do not use this product in other A/C systems. Use only in applicable compressors.

Features:

- Polyol Ester Refrigerant Oil
- ISO Viscosity 100
- For R12 and R134a A/C Systems
- UV Dye For Leak Detection
- Premium Double End Cap

Part #74389 – 8 oz. / 236 ml

Part #74390 – 1 Quart / 32 oz. / 946 ml



Paints and Coatings



Caterpillar® Yellow (Industrial protective coating)

Part #500644 Caterpillar® Yellow (Original)* – 15 oz.

Part #502311 Caterpillar® Yellow (New)** – 12 oz.

Caterpillar® Yellow (Original) – Used to restore original factory color on farm tractors, implements and industrial or construction equipment. Heat resistant to 300°F. Resists fading, chipping, cracking, and many chemicals industrial gas, oil and grease.

Caterpillar® Yellow (New) – High solids for increased coverage and low solvent level. Contains no lead, chromates or methylene chloride. Protects against rust, weather and most chemicals.

Features:

- Environmentally formulated
- Lead free
- V.O.C. compliant

*Caterpillar® Trucks & Equipment
produced prior to 1979

**Caterpillar® Trucks & Equipment
produced after 1979

Applications:

- Color Coding
- Construction Equipment
- Motors
- Sheet Metal
- Tools
- Trucks

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School Bus Yellow (Industrial protective coating)

Part #74146 – 16 oz. / 454 g

A superior, lead-free industrial coating formulated for fleet maintenance applications where maximum performance is required. For maximum protection, prime bare or rusted metal surfaces with Pro-Coat™ Gray Primer, P/N 74003.

Features:

- Protects against rust, weather, oil, gasoline and most corrosive chemicals
- Resists abrasion and heat
- Withstands high humidity
- Capable of single coat hiding

Applications:

- For wood, metal, blowers, frames, machinery, racks, doors, and motors

Paints and Coatings



Satin Black Paint

Part #74011 – 15 oz. / 426 g

(Matches factory finish on many automotive exterior trim components)

Satin Black is formulated to match the OEM finish on many automotive exterior trim components, and is designed for maximum adhesion on properly prepared surfaces without the use of a primer. To achieve amazing results, clean surface with Red Lion™ Prep Solve (P/N 74700), and remove loose paint and sand with 400 grit sandpaper.

Features:

- Protects against weather
- Contains No CFCs or Other Ozone Depleting Substances

Applications:

- Matches Factory Finish on Many Automotive Exterior Trim Components

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Red Iron Oxide Primer

Part #74002 – 17 oz. / 482 g

(Industrial protective coating)

A superior grade primer formulated specifically for use with MRO Industrial Protective Coatings to provide maximum performance under severe weather conditions or chemical exposure. The high solids content ensures excellent adhesion, providing a smooth, even finish.

Features:

- VOC Compliant
- High Solids Content
- Environmentally Formulated
- Protects Against Rust and Corrosion
- Excellent Adhesion

Applications:

- For bare or rusted metal

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No-Stick Welder's Anti-Spatter

Part #74018 – 18 oz.

(Protective spray coating for welding operations)

A non-flammable powder formulation that dries to a white film. Prevents welding spatter from sticking to metal surfaces during welding. Just brush or wipe off residue after welding. Does not contain silicone. Surface may be painted after use.

Features:

- Prevents spatter from sticking to metal surfaces
- Dries to powder film
- Brushes off after welding

Applications:

- For use in maintenance, production, construction and body shops

Paints and Coatings



PRO-COAT™ OSHA Color Industrial Enamels (Extremely tough, corrosion resistant, fast drying, acrylic enamel paints)

Provide maximum coverage for marking and color coding pipe lines, electrical equipment, safety equipment, emergency equipment, conduit, tools, motors, ducting and sheet metal. The tough protective coating resists corrosion, chipping and peeling and our unique SprayPro™ nozzle makes application easy in both horizontal and vertical positions.

Features:

- One coat coverage
- Protects against rust and corrosion
- Use on metal and wood
- Leaves a durable, protective finish
- Dries fast
- SprayPro™ nozzle

Color Coding Applications:

Even though the Occupational Safety and Health Administration (OSHA) has eliminated the specific color definitions and detailed requirements for Safety Color Coding, the following suggested color scheme has been utilized and accepted throughout the industry. The marking of physical hazards should never take the place of eliminating those hazards when possible, and proper employee training in the recognition of these colors and their respective warnings is imperative.

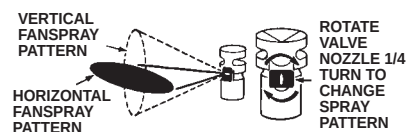
- **RED** is used to mark fire protection equipment such as alarm boxes, extinguishers, fire blankets and doors, hose connections, hydrants and sprinkler piping. It can also be used on emergency stop bars on hazardous machinery or stop buttons and electrical switches.
- **YELLOW** is used to color code dangerous materials such as flammable liquids, poisonous gases, corrosive liquids (acids and alkalis) and steam, water or air at high temperatures and/or pressures. It can also be used to highlight handrails.
- **GREEN** is used to color code relatively safe materials such as drinking water, service water, brine, syrups or glycols. It can also be used to mark the location of First Aid equipment such as kits, dispensary, stretchers and safety showers.

Part #74190 – Red

Part #74194 – Yellow

Part #74196 – Green

(All OSHA Paints 15.25 oz.)



Paints and Coatings



PRO-COAT™ Acrylic Enamel Paints

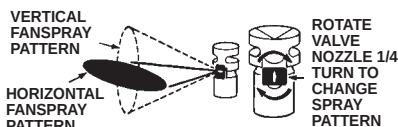
(Extremely tough, corrosion resistant, fast drying, acrylic enamel paints)

Pro-Coat premium grade acrylic enamels provide the ultimate protection for all industrial applications. Our fast-drying, high solids formula ensures maximum coverage and durability on all metal and wood surfaces. The tough protective coating resists corrosion, chipping and peeling and our unique SprayPro™ nozzle makes application easy in both horizontal and vertical positions.

Features:

- Fast-Drying
- Maximum Coverage
- Ultimate Protection
- Interior / Exterior
- SprayPro™ Nozzle

SprayPro™ Nozzle:



Applications:

- Conduit • Conveyors • Doors • Ducts • Fencing • Electrical Equipment • Ladders
- Machinery • Motors • Pipelines • Railings • Shelving • Tools • Safety Markings

Part #74014 (Gloss Black) – 15.25 oz.

Part #74010 (Gloss White) – 15.25 oz.

Part #74003 (Gray Primer*) – 15.25 oz.

Part #74016 (Hi-Temp Flat Black) – 15.25 oz.

Part #74012 (Industrial Gray) – 15 oz.**

**Use Gray Primer on bare or rusted metal*

***Does not have SprayPro™ nozzle.*



Paints and Coatings



PRO-COAT™ Clear Epoxy Grit Coating Part #74024 – 12 oz. *(Extremely tough, corrosion resistant, fast drying, acrylic enamel paints)*

This durable one-part epoxy coating is blended with non-slip grit for indoor or outdoor use. Designed to give better traction in heavy traffic areas, under both wet and dry conditions. Helps prevent slips and falls. Tough epoxy coating cures to a hard flat textured surface and is chemically resistant to gasoline, oils, de-icing salts and more.

Features:

- Non-slip grit
- Prevents slips and falls
- Cures to a hard flat texture
- Chemically resistant
- Interior and exterior

Applications:

- Steps
- Walkways
- Cat Walks
- Ramps
- Spa/Swimming Pool Decks • Truck/R.V. Steps
- Wood Decks
- Handrails
- Sidewalks
- Loading Docks
- Locker Rooms
- Showers
- Public Restrooms
- Diving Boards
- Healthcare Facilities
- Marine Docks
- Agricultural Machinery
- Fiberglass
- Aluminum
- Concrete
- Industrial Work Places

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PRO-COAT™ S/S Protective Coating Part #74040 – 15 oz. *(Extremely tough, corrosion resistant, fast drying, acrylic enamel paints)*

Formulated with 100% type 316L stainless steel pigment. This unique formulation provides maximum corrosion resistance on stainless steel, copper and other metals. It dries quickly to a satin sheen, hardens overnight and cures to optimum strength in several days. It has excellent high temperature resistance (400°F continuous, 450°F intermittent) and our unique SprayPro valve makes application easy in both horizontal and vertical positions. Authorized by the USDA for use in federally inspected meat and poultry plants.

Features:

- Looks like stainless
- Contains real 316L stainless steel pigment
- Covers welding discoloration
- High temperature resistance
- Fast drying

Applications:

- Exhaust Systems • Steam Pipes
- Mufflers • Radiators • Furnaces
- Production Equipment • Engines
- Plumbing Fixtures

Paints and Coatings



Non-conductive Paint - Glossy White P/N 74029 – 16 oz. (Maintains non-conductivity coating integrity)

Ideal for industrial applications.

Features:

- Single coat hiding power
- Resists fading, chipping, peeling, cracking, corrosion
- High opacity
- Great durability
- Lead-free formulation

Applications:

- Bucket Trucks, buckets, utility bodies, utility contractors, power companies, fire departments, scaffolding coating, tops of ladders & hooks, power boxes



Ceiling Tile Spray – White (Restores damaged ceiling tiles)

P/N 74134 – 15 oz.

Restores ceiling tiles damaged or discolored by smoke, water or aging. Easily applied and dries in minutes. Makes tiles look like new.

Features:

- Restores discolored, smoke or water damaged tiles
- Eliminates costly tile replacements
- Easily applied – unique valve allows spraying tiles in place
- Dries quickly

**SPRAYS
VERTICALLY!**

Applications:

- Restores damaged ceiling tiles



Red Insulating Varnish (Protects and insulates motor windings and coils)

P/N 74139 – 16.25 oz.

A superior high arc resistant coating assuring long lasting protection. Provides excellent adhesion to windings, coils and metals. Has high dielectric strength of 50,800 volts/in. (2 mil+ thickness).

Features:

- Impregnates and insulates motor windings, coils, electrical components, etc.
- Protects against oils, moisture, acids and alkalies
- High dielectric strength
- Dries quickly leaving a tough, flexible coating
- Seals out moisture on all electrical connection switches and panels

Applications:

- Bus Bars • Electrical Components • Field Coils • Motor Windings
- Rings and Frames • Stator Windings • Switchboard Parts • Transformers

Paints and Coatings



Rust-Away™ Rust Conversion Coating

Part #74157 – 32 oz.

Part #74555 – 1 gal.

(Flexible latex coating chemically converts rust to long lasting finish)

A flexible latex acrylic coating specially formulated for rusted metal surfaces. This water-based formulation is easily applied like paint and stops rust dead in its tracks. It forms an airtight protective seal, preventing air or moisture from coming in contact with metal, and it's weather and chemical resistant.

Features:

- Chemically converts rust to a long lasting, weather-resistant coating
- No priming or sanding
- Won't crack, chip or peel
- Forms an airtight seal
- Flexible latex coating lasts for years

Applications:

- Protects transformers, coils, tools, fixtures, brackets, equipment, heavy machinery, chain link fences and hundreds of other applications.
- Bonds to metal, wood, concrete and plastics without primers.

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Rust-Away II Rust Converter

Part #74701 – 15 oz.

(Converts rust to a tough protective coating)

Specially formulated to convert rusted metal surfaces to a tough, black protective coating. Forms an airtight protective seal, preventing air or moisture from coming in contact with metal. Stops rust dead in its tracks. Weather and chemical resistant.

Features:

- Chemically converts rust to a long lasting, weather-resistant coating
- No priming or sanding necessary
- Won't crack, chip or peel
- Forms an airtight seal
- Paintable

Applications:

- Protects transformers, coils, tools, fixtures, brackets, equipment, heavy machinery, chain link fences and hundreds of other applications.

Paints and Coatings



Cold Zinc Galvanizing

Part #74112 – 14 oz.

(Pure zinc spray for rust and corrosion protection)

Contains 93% pure zinc dust in organic resin for long lasting protection against rust and corrosion. Manufactured to Mil Spec Mil-P-26915C. Use to rustproof and protect welds, automotive and truck bodies, wrought iron, pipes, utility towers and vaults, gutters, structural steel work and anywhere metal is subjected to corrosion.

Features:

- Prevents rust and corrosion
- 93% pure zinc dust
- Resistant to salt, corrosion and water
- Meets mil specifications
- Excellent primer
- Rustproofs welds
- Temperature to 400°F (600°F intermittent)
- Meets MIL specifications:
 - MIL-P-46105 Weld thru Primer
 - US Navy: Galvanizing Repair Specifications MIL-P-21035
 - US Air Force: MIL-P-26915A for Steel
 - US Air Force: MIL-P-26433 for Towers (Temperate and Arctic Zones)

Applications:

- Use to rustproof and protect welds, automotive and truck bodies, wrought iron, pipes, utility towers and vaults, gutters, structural steel work and anywhere metal is subjected to corrosion.

Undercoat

Part #74129 – 18 oz.

(Rubberized coating that prevents rust and reduces road noise)

A black, rubberized undercoating for all automobile under surfaces. Sprays evenly and dries completely to a smooth consistency. Can be top coated with automotive finishes.

Features:

- Prevents rust
- Reduces road noise
- Seals out water, fumes, road chemicals & dust
- Reduces lingering odor associated with under-coatings
- No "bleed through" when top coated
- No sagging

Applications:

- Panel & fender undersides
- Hoods & decks
- Trunk interiors
- Section repairs
- Weld joints
- Rust holes

Snow Plow Coating

Part #509280 – 1 Gal.

(Can be used on plow blades & all other snow removing equipment)

This coating deposits a thin, slippery layer of silicone that reduces friction on plow blades, shovels and truck beds to provide more efficient plowing. It also protects metal surfaces from rust and corrosion and will not wash off when cleaned after use.

CAUTION: Avoid application of coating material closer than 12" to 14" to the exhaust system or catalytic converter.

Features:

- Protects against rust and corrosion
- Reduces friction for more efficient plowing
- Leaves a hard, slippery layer of silicone on plow blades
- Will not wash off
- Use less fuel

Applications:

- Just spray, brush, swab or roll onto plow blades & other exposed metal and painted surfaces.
- Protect equipment from rusting by applying several applications after using equipment and during summer storage.



Paints and Coatings

Striping and Marking Paints

(Dependable performance in a wide range of marking applications)

These Striping and Marking Paints are formulated to address today's environmental concerns while providing efficient and dependable performance in a wide range of marking applications. From utilities and construction to recreational and maintenance applications, we offer a striping product suited to your needs.



- **GOLF COURSE MARKER** – a **16 oz.** water-base marker for use on golf courses and other porous applications. Formulated not to harm grass, this marker is not water-soluble and will not wash away during rain or irrigation. This marker comes with the “Converta-Cap”, a specially designed protective cover that does not need to be removed before using.
- **ATHLETIC FIELD MARKER** – A specially formulated **20 oz.** water-base paint that will not harm grass and is not water soluble for maximum durability.
- **INVERTED TIP MARKER** – A heavy-duty, **20-oz.** water-base industrial marker. The no-clog, fast drying formula is available in a full range of construction and APWA colors. This marker also comes with the “Converta-Cap”. This provides the user with a convenient marking tool without the worry of accidentally spraying. The new spray tip provides crisp lines up to 4" wide and approximately 250 feet in length.
- **TRAFFIC MARKER** – A **20-oz.** water-base paint formulated with high pigment solids ideally suited for a wide range of applications including concrete, blacktop, gravel or dirt. Not affected by water.

Applications:

ATHLETIC MARKER PRODUCTS

For grass and turf applications

- Recreational School Fields
- Rental Yards
- Golf Courses
- Nurseries
- Paving Contractors
- Landscaping
- Home Landscaping Layouts

TRAFFIC MARKER PRODUCTS

For asphalt and concrete applications

- School Parking Lots and Playgrounds
- Apartment Complexes
- Churches
- Rental Yards
- Golf Courses
- Paving Contractors
- Water/Sewer Lines
- Hotels
- Public Works Municipal Projects

*For applicator tools, see
Dispensing Equipment section*

GOLF COURSE MARKER

- Inverted-Straight Nozzle – 16 oz.
Part #74050 – White
Part #74051 – Red

ATHLETIC FIELD MARKER

- "T" Type Nozzle – 20 oz.
Part #74052 – White
Part #74053 – Orange

INVERTED TIP MARKER

- Inverted-Straight Nozzle – 20 oz.
Part #74004 – Purple
Part #74054 – White
Part #74055 – Fluorescent Red
Part #74056 – Fluorescent Orange
Part #74057 – Precaution Blue
Part #74058 – Alert Orange
Part #74059 – Safety Red
Part #74060 – Fluorescent Green
Part #74061 – Fluorescent Hot Pink
Part #74062 – Utility Yellow

TRAFFIC MARKER

- T-Type Nozzle – 20 oz.
Part #74063 – White
Part #74064 – Yellow
Part #74065 – Red
Part #74066 – Handicap Blue

Paint Removers



Prep-Solve

Part #74700 – 14.50 oz.

(Pre-paint surface cleaner)

Ideal for preparing surfaces prior to painting or bonding. This special formulation of virgin solvents is extremely effective in removing adhesives, tar, undercoating, rustproofing, waxes, teflon coatings, polishes, silicones, paint overspray, grease and sealants. The deep cleaning action maximizes the adhesion of all paints, finishes and adhesives on all surfaces. Also ideal for spraying on "tack cloths" for dust removal just prior to painting.

Features:

- Unique formulation – special blend of hydrocarbon solvents swiftly cut through a wide range of dirt, grime and grease
- Leaves no film or residue – no additional cleaning required, does not inhibit the application of primers, paints and other protective coatings
- Assures maximum adhesion – deep cleaning action significantly improves the adhesive quality of glues and cements on surfaces to be joined.

Applications:

- Effective in removing adhesives, tar, undercoating, rustproofing, waxes, teflon coatings, polishes, silicones, paint overspray, grease and sealants
- Excellent for preparing surfaces prior to painting or bonding
- Cleans fragile automotive surfaces such as carpeting, vinyls, plastics and fabrics

Gasket and Paint Remover

Part #74113 – 17.75 oz.

(Gasket, paint and decal stripper)

Fast acting spray that removes gaskets, paint, decals, dried oils, varnish, shellac and similar coatings from any metal, wood, tile, brick, or concrete surfaces.

Features:

- Strong, fast acting formula
- Removes gaskets, paint, tar, adhesives
- Adheres to vertical surfaces

Applications:

- Can be used on metal, wood, glass, tile, brick, stone and concrete.
Do not use on plastic tile, linoleum, or synthetic files.



Paint Removers



Graffiti Wipes

(Removes Paint and Graffiti in One Easy Step)

P/N 74611

Net contents: 40

Used for fast, easy clean-up of paint from non-porous surfaces. These amazing wipes are premoistened with an incredible cleaning formula that removes paints (including enamel), ink and even permanent marker. A few swipes with a single wipe quickly dissolves away unwanted paint and graffiti.

Product does not contain amyl acetate or methylene chloride, unlike other graffiti removers, making these towels less hazardous for users as well as surfaces.

Features and Benefits:

- Non-toxic when compared with other paint and graffiti removers
- Environmentally safe and biodegradable formula
- Abrasive yet non-scratching fabric aids in cleaning
- Towels stay moist for greater usage and longer shelf life

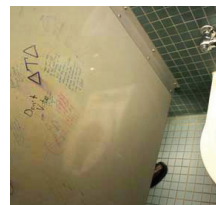
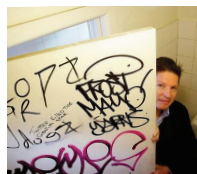
Ideal for Use On Various Surfaces:

- Bathroom partitions
- Phone booths
- Lamp posts
- Bus stops and seats
- Trains
- Road signs
- Aluminum siding
- Stainless steel
- Wall tile
- Billboards
- Desks
- Lockers

Effective Against

- Paint
- Ink
- Enamel
- Permanent marker

Note: Product is NOT a hand cleaner. Protective gloves are recommended while using this product.



Paint Removers



Graffiti Barrier

(High Performance Sacrificial Graffiti-Protection Barrier)

Graffiti Barrier is a clear, odorless liquid that can be applied to nearly any non-porous surface to provide a protective barrier against graffiti. After it's applied, it dries to a clear film, which protects against spray paint, marker, pen and other substances. Once defaced, the barrier is easily removed with no damage to the surface. The thickened formula adheres to vertical surfaces, and is water-resistant, allowing for some outdoor applications. It will not affect signs' reflective properties, and will not yellow.

Features and Benefits:

- Creates a crystal-clear barrier to protect surfaces from graffiti
- Liquid formula can be applied to most any non-porous surface.
- Water-resistant formula
- Rinsable for easy removal and reapplication.

Protects Against:

- Spray paint
- Marker
- Pen

Use on:

- Signs
- Lockers
- Restroom partitions
- Windows and mirrors
- Soda machines
- Doors
- Walls
- Surfaces that cannot be repainted
- Enamel
- Powder coated surfaces
- Electroplate
- Plastic

P/N 74625

Net contents: 1 qt.

P/N 74626*

Net contents: 1 gal.

P/N 74627*

Net contents: 5 gal.

P/N 74628*

Net contents: 55 gal.

* Non-stock item.
Please call for delivery.



Specialty Products



RED

YELLOW

A&R Tabs

(A/C and Refrigeration Drain Pan Treatment Tablets)

Part #74720

6 Geltabs – for up to 5 tons

Part #74721

3 Geltabs – for up to 15 tons

New technology breakthrough for treating A/C and refrigeration drain lines and pans.

Easy to use – just place a tablet in the pan. As moisture drips on or flows over the tablet, it activates the chemicals and locks it in place. A&R Tabs will never move and block the drain line. They form a gel that slowly releases the active ingredients, producing up to 6 months of safe, positive, prolonged cleaning action. Unlike liquid additives or cleaners that are difficult to know when more additive is required, the A&R Tab provides a quick and easy visual indicator. When the tablet is gone, it's time to replace it.

Features:

- Locks into Place
- Slow and Continuous Release Gel
- Works Until Completely Dissolved
- Eliminates Odors from A/C and Refrigeration

Applications:

- Treating A/C and Refrigeration Drain Lines and Pans



Belt Dressing

Part #74117 – 14 oz.

(Revitalizes belts for longer life)

Ideal for rubber, canvas, industrial, automotive and other V-belts. Regular use adds life and increases efficiency. A small amount applied to rubber and V-belts imparts maximum power. On canvas belts, a slightly more liberal application is required.

Features:

- Stops slippage for maximum power
- Prevents "dry rot"
- Eliminates squeaking
- Revitalizes belts for longer life

Applications:

- Ideal for rubber, canvas, industrial, automotive and other v-belts



Drain Opener – Professional Strength

Part #74380

32 fl oz.

(Professional strength, clog busting power)

Provides extra clog busting power to open most stubborn clogs fast and easy, even through standing water. Safe for plumbing fixtures, plastic pipes, grease traps, septic tanks and cesspools.

Features:

- Dissolves hair, grease, lint, food and soap scum
- Clears tough clogs fast, even through standing water
- Safe for plumbing fixtures, plastic pipes, grease traps, septic tanks and cesspools

Applications:

Ideal for use on: Sinks • Tubs • Showers • Grease Traps • Septic Tanks • Cesspools

Specialty Products



Chromagic (Spill Absorbent)

Part #28234 – 0.15 cu. ft.

Chromagic is a non-selective product, it is one absorbent for multiple types of spills. Chromagic is environmentally safe and friendly, non-toxic and non-flammable. It is highly absorbent. In fact, it is 15 times more absorbent than clay based products. Easy to handle and lightweight, it is 20 times lighter than clay based products. Chromagic is sold as a twin pack.

CAUTION: Cannot be used to absorb Hydrofluoric Acid (HF)

Features:

- Odor Free
- Will save money on shipping, storing and disposal
- Instant clean up saves time
- Meets or exceeds all OSHA and EPA requirements
- Prevents accidents – Picks up oily sheen, and reduces Workers' Compensation
- Lightweight and powerful
- Absorbs and holds most liquids
- One pound of Chromagic can completely absorb one quart of motor oil; clay, earth, and sand products require 15 pounds
- Requires far less absorbent to capture a spill
- Greatly reduced disposal costs
- Works on all animal, vegetable, mineral, petroleum based or semi-liquid spills
- Unlike kitty litter products that contain "Crystalline" Silica, Chromagic does not, under OSHA standards, qualify as a carcinogen, or as a substance causing silicosis, a lung disease
- Non-injurious to most surfaces including cement, asphalt, tile, and carpet

Applications:

- Industrial Plants • Processing Plants • Plumbing Contractors • Hospitals
- Nursing Homes • Day Care Centers • Athletic Clubs • Schools / Offices
- School Buses • Laboratories • Restaurants • Shopping Centers • Taverns
- Airlines • Cruise Liners • Public Transportation • Ambulance Services • Taxi Cabs
- Watercraft • Pet Stores • Kennels • Veterinarians • Jail Cells • Waste Haulers

Quik-Zorb™ (Spill Absorbent)

Part #74189 – 16 oz.

Absorbs over 100 times its weight of water-based spills with just a small sprinkle of powder. Instantly "gels" all water-based chemical spills and human and animal bodily fluids including blood, urine and vomit. Turns liquid biohazards into sweepable, flushable gel. Works on hard surfaces and carpet. Deodorizes with a fresh mint odor counteractant fragrance. USDA approved.

Features:

- Instantly gels and absorbs over 100 times its weight, allowing quick and easy cleanup of spills
- Fresh, deodorizing scent eliminates odors
- Biodegradable – can be flushed and disposed of easily
- V.O.C. compliant – contains no VOC's or ozone depleting chemicals

Applications:

- Industrial Plants • Processing Plants • Plumbing Contractors • Hospitals
- Nursing Homes • Day Care Centers • Athletic Clubs • Schools / Offices
- School Buses • Laboratories • Restaurants • Shopping Centers • Taverns
- Airlines • Cruise Liners • Public Transportation • Ambulance Services • Taxi Cabs
- Watercraft • Pet Stores • Kennels • Veterinarians • Jail Cells • Waste Haulers



Specialty Products



Gum Off

(Chewing Gum and Wax Remover)

Part #74110 – 5 oz.

For use on carpets, wood, tile, marble, Formica, terrazzo and cement surfaces. May also be used on fabric, leather and vinyl furniture.

Features:

- Quick Freezing Action
- Hardens Gum and Wax
- No Chlorofluorocarbons
- Environmentally Compatible

Applications:

Carpets • Wood • Tile • Marble • Formica • Terrazzo • Cement Surfaces • Fabric
Leather • Vinyl

Snow & Ice Melter

(Remove Ice With Less Effort)

P/N 74608 – 50 lb. box

P/N 74608P – Pallet (48 boxes)



Red Lion™ Snow & Ice Melter granulars is a blend of 100% active ingredients (calcium chloride blend). This unique formula has the added benefit of all materials working together in a synergistic fashion to effectively melt snow and ice. Red Lion™ Snow & Ice Melter can be used on asphalt, concrete, granite, tile, brick, bluestone, natural flagging, pavers and pave stone.

Features:

- **Pink color** to improve smooth and consistent coverage, especially during low visibility conditions
- Will not harm lawns, trees, or shrubs when used as directed
- Contains dust control and anti-caking agents
- Melts to -25°F
- Does not contain any rock salt
- Easy to apply by hand or spreader
- Safe for use in the State of California

Used by professionals for:

• Commercial buildings • Residential buildings • Campuses • Hospitals • Municipal buildings • Businesses

Applications:

• Parking lots • Driveways • Sidewalks • Steps • Porches • Patios

Ice & Frost Remover

(Quickly dissolves ice, frost and snow deposits)

Part #74488 –13 oz.



Specifically formulated to quickly dissolve ice, frost and snow deposits. Melts ice, frost and snow instantly. Use on automobiles, trucks, buses, and maintenance equipment.

Features:

- Fast acting, water rinseable
- Helps prevent freezing when applied in advance
- Eliminates scraping and potential damage to glass
- Thaws frozen locks
- Works in any temperature

Applications:

- Windows
- Headlights
- Windshields
- Locks
- Tires
- Tail lights
- Hinges
- Sidewalks
- Steps
- AC equipment

Specialty Products



Leak Stop

Part #74381 – 4 oz. / 114 g

(Seals leaks in auto A/C systems)

Seals leaks in auto air conditioners involving hoses, o-rings, and gaskets. For mechanical leaks, a UV dye in the R-134a Leak Stop pinpoints the leak, so it can be repaired. Each can contains two ounces of a mixture of PAG lubricant, seal additive and UV dye, plus two ounces of R-134a refrigerant (1,1,1,2-Tetrafluoroethane). This product conserves refrigerant by allowing the A/C system to be treated without having to open the system. R-134a Leak Stop may be used in all R-134a A/C systems.

Features:

- With UV Dye For R-134a Systems
- Seals Leaks In Auto A/C Systems Involving Hoses, O-rings and Gaskets



Eco-Friendly Chemicals



Bio Lube "Lubricant/Penetrant"

A high performance penetrant and lubricating oil for general purpose use. Formulated with the best optimized USA-grown natural seed oils and select additives, it surpasses the lubricity and performance of conventional lubricants. Loosens rusty bolts, quiets squeaky hinges and moving parts. For general purpose cutting, grinding and drilling metals, milling, tapping, and reaming.

Features

- Multipurpose lubricant and penetrant
- Loosens rusty bolts
- Quiets squeaky hinges and moving parts
- Deters water and protects from rust and corrosion
- General purpose cutting, grinding and drilling metals, milling, tapping, and reaming

Benefits

- Made from renewable USA-grown crop-based vegetable oils, better for your health
- Biobased/Biodegradable
- Reduces foreign oil dependence
- Multiple applications – Reduces product inventory
- Superior lubricity improves productivity
- Cooler operating and less smoke – Higher operating speeds
- Safe for all metals
- Will help your business comply with ISO-14000
- Does not contain chlorine
- High flash and fire points



P/N 74266 – Net wt. 2 oz.

P/N 74267 – Net wt. 8 oz.



Eco-Friendly Chemicals

These Red Lion™ Eco-Friendly "Green" Chemicals meet Green Seal™ Environmental Standards for industrial and institutional cleaners and floor-care products.

In our continuing effort to offer the most environmentally preferable and effective products, we would like to introduce the new Red Lion™ Eco-Friendly "Green" line of cleaners.

The products are designed to meet "Green Product" industry criteria. The standards encompass environmental impact, health effects as well as product performance. They are Environmentally Preferable Products that are formulated to perform well yet have no harmful effects on our environment or to the person using the product. We are proud to announce that Eco-Friendly Multi-Purpose Cleaner, Eco-Friendly Glass Cleaner, Eco-Friendly Tub & Tile Cleaner, Eco-Friendly Peroxide Cleaner, Eco-Friendly Zinc-Free Seal & Finish and Eco-Friendly Floor Stripper all meet specific Green Seal™ Environmental Standards.

There are laws already in place or are pending that will require the use of environmentally sensitive products in N.Y. State Buildings, N.Y.C. Municipal Buildings and all schools in N.Y. State. Although New York has taken the lead in this area, other states are sure to follow.

Perfect for use in schools, office buildings, apartment buildings, hospitals, nursing homes and other institutions where environmentally preferred products are desired.



Eco-Friendly Multi-Purpose Cleaner

A highly concentrated, multi-purpose cleaner formulated to be a H.D. Cleaner, Spray and Wipe Cleaner and a Neutral Floor Cleaner depending upon dilution. This product meets the requirements of the GS-37 Green Seal™ Standard. Provides top-tier performance for cleaning floors, walls, chrome, stainless steel, table tops, vinyl, sealed wood and many other surfaces not harmed by water.

- **Spray/wipe Cleaner:** 1:128 dilution
1 gallon dilutes with water to make up to 512 quart bottles
- **Heavy-duty Cleaner/Degreaser:** 1:32 dilution
1 gallon dilutes with water to make up to 128 quart bottles
- **Neutral Floor Cleaner:** 1:256 dilution
Low suds, so it's great for auto-scrubbers as well as mop buckets.

P/N 74067 (1 gal. Container)

P/N 74068 (5 gal. Pail)

P/N 74069 (55 gal. Drum)

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Eco-Friendly Glass & Window Cleaner

A highly concentrated, glass, window and multi-purpose cleaner. It is designed to meet the requirements of GS-37, the Green Seal™ Standard for Glass Cleaner. Eco-Friendly Glass & Window Cleaner has been formulated with completely biodegradable surfactants and other naturally derived ingredients. This non-toxic glass, window and multi-purpose cleaner provides top-tier performance. It is alcohol-free, ammonia-free, non-streaking and fast drying.

- **Glass & Window Cleaner:** 1:64 dilution
1 gallon dilutes with water to make 256 quart bottles

P/N 74070 (1 gal. Container)

P/N 74071 (5 gal. Pail)

P/N 74072 (55 gal. Drum)



Eco-Friendly Chemicals

These Red Lion™ Eco-Friendly "Green" Chemicals meet Green Seal™ Environmental Standards for industrial and institutional cleaners and floor-care products.



Eco-Friendly Tub & Tile Cleaner

A highly concentrated, non-corrosive, non-fuming, tub & tile cleaner. This product meets the requirements of the GS-37 Green Seal™ Standard. It is formulated with a low pH organic salt capable of replacing a wide range of traditional acids. Provides top-tier performance for cleaning tubs, tile, grout, walls, toilet bowls, urinals, shower stalls and other bathroom surfaces.

P/N 74073 (1 gal. Container)

P/N 74074 (5 gal. Pail)

P/N 74075 (55 gal. Drum)

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Eco-Friendly Peroxide Cleaner

A highly concentrated, multi-purpose cleaner providing top-tier performance as a Glass Cleaner, Multi-Purpose Cleaner and a Restroom Cleaner depending upon dilution. Eco-Friendly Peroxide Cleaner meets the requirements of the GS-37 Green Seal™ Standard. It has a pleasant orange scent.

- **Spray/Wipe Cleaner:** 1:128 dilution • 1 gallon dilutes with water to make up to 512 quart bottles
- **Multi-purpose Cleaner:** 1:64 dilution • 1 gallon dilutes with water to make up to 256 quart bottles
- **Restroom Cleaner:** 1:16 dilution • 1 gallon dilutes with water to make 64 quart bottles

P/N 74076 (1 gal. Container)

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Eco-Friendly Floor Stripper

A concentrated, highly effective, fast acting, low odor, floor finish and wax remover – environmentally benign but still strong enough to remove floor finishes and wax seals without the use of a floor machine. Eco-Friendly Floor Stripper meets the GS-40 Green Seal™ Standard for Floor Stripper, based on its reduced human and aquatic toxicity and reduced smog production potential. Using state-of-the-art chemistry, it provides top-tier performance without the potentially harmful effects of 2-butoxyethanol, ammonia, nonylphenol surfactants, dye or fragrance. A highly effective fast acting product with low odor.

P/N 74080 (1 gal. Container)

P/N 74081 (5 gal. Pail)

P/N 74082 (55 gal. Drum)

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Eco-Friendly Zinc-Free Seal & Finish

A highly effective, low V.O.C., zinc free floor seal and finish. Eco-Friendly Zinc-Free Seal & Finish represents a new generation of floor care products. It exhibits a deep, wet-look gloss and it can be incorporated into any floor maintenance program. It meets the GS-40 Green Seal™ Standard for Floor Finish. Eco-Friendly Zinc-Free Seal & Finish contains no heavy metals, formaldehyde, ammonia or nonylphenol surfactants. High levels of zinc have been found to be toxic to aquatic life.

P/N 74077 (1 gal. Container)

P/N 74078 (5 gal. Pail)

P/N 74079 (55 gal. Drum)



Eco-Friendly Chemicals

Red Lion™ Eco-Friendly Green Aerosols are toxin-free, petroleum distillate-free, VOC compliant, and contain no ozone depleters. These products are also manufactured from environmentally safe, naturally derived materials and packaged in recyclable containers that are made from partially recycled steel.



What are bio-enzymatic products?

Many cleaners and industrial products contain toxins and chemicals which can cause harmful effects on the environment and human health. Bio-enzymatic products contain strains of safe, naturally occurring bacteria and enzymes that are very efficient at breaking down and digesting organic materials and eliminating soil and odor, and do not create pollution. Instead of using man-made chemicals that use energy to produce and deplete natural resources, to clean and deodorize, Chromate uses nature's approach.

What are renewable resources products?

These products are formulated from ingredients derived from renewable agricultural sources, including citrus and soy, and are excellent alternatives to products made from traditional petroleum-based or synthetic components. Renewable resource ingredients are constantly replenished by nature and help promote sound environmental stewardship since they don't harm the environment or expose the user to dangerous chemicals.

What are the benefits of using aerosols?

Aerosols can produce results unavailable from any other application method by controlling the particle's size, spray pattern, volume and concentration. This combination ensures that the proper amount and concentration of the product is delivered exactly where it's needed. Additionally, aerosols are packed in sealed containers, making them spill-proof, unlike liquid products. They reduce waste because precise amounts of the product are delivered to an exact area. You can aim and spray exactly where you want to, with maximum effectiveness. Products stay fresh because no air can get in the can, giving them a long shelf-life.



Eco-Friendly Cutting Oil

P/N 74084 – Net wt. 11 oz.

A multi-purpose, low odor cutting oil formulated from all natural ingredients for light-to-medium duty applications. Keeps work pieces cooler and generates less smoke than petroleum-based cutting oils.

Suitable For:

- Cutting, Tapping, Threading, Sawing, Grinding

Features:

- Reduces heat distortion and tool burning, resulting in increased productivity
- Readily biodegrades
- Non-staining on all metals
- Specially designed for field and portable operations

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Eco-Friendly Penetrating Oil

P/N 74083 – Net wt. 11 oz.

Contains no silicones or harsh solvents, which can affect plastics, lacquers, insulation and paint. Forceful spray and powerful capillary action provides rapid penetration through rust and corrosion to free frozen parts. Never-dry oil film lubricates parts, reducing friction and wear, to ensure free and easy movement over a broad temperature range.

Suitable For:

Frozen Nuts and Bolts, Hinges, Screws, Clamps, Linkages, Fasteners, Molds, Lug Nuts, Tools, Threaded Parts, Engine Parts, Motors, Bearings, Gears

Features:

- Contains no silicones or harsh solvents that can harm plastics, lacquers, insulation or paint.
- Forceful spray helps blast through rust and corrosion.
- Powerful capillary action rapidly climbs threads and penetrates into tiny voids to carry lubricant to where its needed.
- Long-lasting, never-dry oil film provides excellent lubricity over a broad temperature range.

Why Safe-T-Line™?

Simple ... A growing concern for user-friendly, environmentally sound products.

RED LION RESEARCH has addressed this issue by offering a line of aerosol products for the industrial maintenance user. Appropriately named **Safe-T-Line**, they are less hazardous to the user and less damaging to the environment, while still providing all the quality and performance essential for those tough, demanding industrial applications.

Safe-T-Line™ products are safer for the user and the environment because it does not contain harmful CFC's, chlorinated solvents, toluene or butyl. It is extremely low in V.O.C.'s and carries a level 1 NFPA 30B fire code rating, (the safest storage rating for aerosol products).

- **NO CFCs (Chlorofluorocarbons)**
Chemicals linked to ozone depletion
- **NO Chlorinated Solvents**
Also linked to ozone depletion. Certain chlorinated solvents are suspected carcinogens.
- **NO Perchloroethylene, Toluene or Butyl**
Suspected carcinogens.
- **OZONE-SAFE Propellant**
Propellant has no harmful effect on ozone.
- **LOW VOC's (Volatile Organic Compounds)**
Carbon-containing (organic) compounds created from sources such as automobile exhaust, power plants, paints, etc. VOC's can form ground level ozone, a major component of smog.
- **NFPA 30B Level 1 Fire Code Rating**
The National Fire Protection Association's best rating for the safe storage of aerosols.



Kleen & Shine

Part #74127 – 16 oz.

(All purpose, stainless steel, food grade cleaner)

Kleen & Shine is an excellent fast-acting cleaner and polisher for stainless steel surfaces. Works on contact at removing dust, dirt and grease. Authorized by the USDA for use in federally inspected meat and poultry plants. Classification C1.

Features:

- Cuts through stubborn greasel
- Cleans and polishes
- Fast acting
- No residue
- Will not scratch



Applications:

- For use on stainless steel, enamel, porcelain, ceramic tiles, refrigeration units, range hoods, door handles and counter tops



Engine Degreaser (High pressure spray, water rinsing)

Part #74183 – 15 oz.

This natural citrus cleaner/degreaser is a powerful engine degreasing formula. It cleans and degreases oil, dirt, grease, tar and adhesives.

Features:

- Superior formulation cuts through stubborn grease and oil
- High pressure spray
- Water rinsing
- Non-chlorinated
- Easy to use

Applications:

- For use on automotive engines, aluminum, stainless steel, tire whitewalls and garage floors



H.D. Citrus Cleaner/Degreaser (Powerful citrus base, biodegradable cleaner)

Part #74145 – 18 oz.

H.D. Citrus Cleaner is a highly concentrated cleaner and degreaser with its powerful foaming action actually lifts dirt and grease off surfaces so it can be easily wiped clean with a cloth.

Features:

- Natural citrus solvent
- Powerful foaming action
- Removes grease, oil and dirt from most surfaces
- Deodorizes with fresh citrus scent
- Biodegradable

Applications:

- For use on porcelain, formica, tiles, enamel surfaces, vinyl tops, floor mats, sinks, tubs, appliances, tools and equipment, oil and tar stains, printing presses and white wall tires



Smoke & Odor Eliminator

Part #74158 – 12 oz.

(Encapsulates and destroys smoke and other tough odors)

Smoke & Odor Eliminator is scientifically formulated to destroy any and all odors safely and effectively. It does not “mask” odors, it chemically bonds with the odor carrying molecules and encapsulates them. Extremely effective on all airborne odors and as a surface spray.

Features:

- Chemically encapsulates and neutralizes odors
- Extremely effective for smoke and other tough odors
- Leaves a clean, fresh fragrance

Applications:

- | | | |
|---------------------------|----------------------|--|
| • Slaughter Houses | • Locker Rooms | • Hotels |
| • Zoos | • Garbage Areas | • Air Conditioning Filters |
| • Kennels | • Sewerage Areas | • Any area where objectionable odors need to be eliminated |
| • Public Rest Rooms | • Smoke Filled Rooms | |
| • Transportation Industry | • Mortuaries | |

Odor Eliminators



Air Sanitizer and Deodorizer

Part #74467 – 8.2 oz.

(Metered mist sanitizer – Eliminates odors and odor causing bacteria)

For automatic dispensers. The next generation odor counteractant system chemically bonds with the malodor molecule destroying the odor source instead of just covering up or masking. Excellent for control of even the toughest odors, including post-fire odors (cigar/cigarette smoke treatment), protein decomposition odors from garbage, and fisheries.

Features:

- Low VOC chemistry is hydro-alcoholic
- No petroleum distillates or hydrocarbon propellants
- Ultra-dry spray has little fall out – Nonflammable
- 3000 sprays / lasts for 30 days – 24 hour basis / every 15 minutes

Applications:

- Public Rooms • Restrooms • Bathrooms/Showers • Pools/Spa Areas • Basements
- Storage Rooms • Kitchens/Cafeterias • Schools • Offices • Hotels • Casinos
- Hospitals • Nursing Homes • Prisons • Laundromats • Theaters • Auditoriums
- Railroad Cars • Heavy Truck Cabs • Airplanes • RVs/Campers • Boats • Cabins
- Beach Houses • Buses • Taxicabs • Game Rooms • Health Clubs • Fitness Centers
- Yoga Studios • Factories/Mills • Department Stores • Grocery Stores



Lemon Italian Ice Air Deodorizer

Part #74470 – 14 oz.

(Deliciously scented, finely atomized, micro-mist air freshener)

Provides complete deodorization of malodors in the air, on surfaces and on fabrics.

Features:

- Does not allow wetting, staining or messy fall-out
- Eliminates tobacco smoke, cooking odors, mold, and mildew odors
- Non-chlorinated
- V.O.C. compliant
- Chemically neutralizes malodors
- Dry spray particles

Applications:

- | | | | |
|-----------------|-----------------|---------------|------------------------|
| • Locker rooms | • Smoking areas | • Motels | • Carpets |
| • Hospitals | • Cars | • Restaurants | • Upholstery / Fabrics |
| • Nursing homes | • Boats / RVs | • Bathrooms | • Draperies |



Baby Powder Odor Eliminator

P/N 74166 – 14.75 oz.

(Odor destroyer with baby powder fragrance)

A unique product that chemically neutralizes malodors and leaves a fresh baby powder scent. Use in locker rooms, hospitals, nursing homes, smoking areas, cars, boats, RV's, motels, restaurants, bathrooms, on carpets, upholstery, draperies, fabrics or anywhere odor is a problem.

Features:

- Eliminates all odors
- Chemically encapsulates and neutralized odors
- Leaves a fresh baby powder scent

Applications:

- Locker Rooms • Hospitals • Nursing Homes • Smoking Areas • Cars • Boats • RV's
- Motels • Restaurants • Bathrooms • Carpets • Upholstery • Draperies • Fabrics
- Anywhere odor is a problem

Odor Eliminators



Smoke & Odor Eliminator

Part #74158 – 12 oz.

(Encapsulates and destroys smoke and other tough odors)

Smoke & Odor Eliminator is scientifically formulated to destroy any and all odors safely and effectively. It does not “mask” odors, it chemically bonds with the odor carrying molecules and encapsulates them. Extremely effective on all airborne odors and as a surface spray.

Features:

- Chemically encapsulates and neutralizes odors
- Extremely effective for smoke and other tough odors
- Leaves a clean, fresh fragrance

Applications:

- | | | |
|---------------------------|----------------------|--|
| • Slaughter Houses | • Locker Rooms | • Hotels |
| • Zoos | • Garbage Areas | • Air Conditioning Filters |
| • Kennels | • Sewerage Areas | • Any area where objectionable odors need to be eliminated |
| • Public Rest Rooms | • Smoke Filled Rooms | |
| • Transportation Industry | • Mortuaries | |

Odor Neutralizing Fogger

Part #74468 – 6.75 oz.

(Removes offensive odors)

Finely atomized, micro-mist total release air freshener provides complete deodorization of malodors in the air, on surfaces and on fabrics.

Features:

- | | |
|--|--|
| • Does not allow wetting, staining or messy fall-out | • V.O.C. compliant |
| • Dry spray particles with unique scent | • Safe on fabrics (carpets, upholstery, draperies) |
| • Eliminates tobacco smoke, mold & mildew odors | • Treats 6,000 cu. ft. |
| • Non-chlorinated | |

Applications:

- | | | |
|---------------------|--------------------|----------------------|
| • Locker rooms | • Restaurants | • Bathrooms |
| • Hospitals | • Smoking areas | • Garbage containers |
| • Nursing homes | • Cars, boats, RVs | • Closets |
| • Hotels and motels | • Public buildings | • Laundry hampers |



Fresh Linen Air Freshener

Part #74469 – 14 oz.

(For A Clothesline Fresh Fragrance)

Deliciously scented, finely atomized, micro-mist air freshener. Provides complete deodorization of malodors in the air, on surfaces and on fabrics. Eliminates tobacco smoke, cooking odors, mold, and mildew odors. Does not allow wetting, staining or messy fall-out.

Features:

- | | |
|--------------------|-----------------------------------|
| • Non-chlorinated | • Chemically neutralizes malodors |
| • V.O.C. compliant | • Dry spray particles |

Applications:

- | | | | | |
|-----------------|-----------------|---------------|--------------|-------------|
| • Locker rooms | • Smoking areas | • RVs | • Bathrooms | • Draperies |
| • Hospitals | • Cars | • Motels | • Carpets | • Fabrics |
| • Nursing homes | • Boats | • Restaurants | • Upholstery | |

Odor Eliminators



GreenWāv Natural Odor Eliminators

Commercial Gel
Air & Surface Spray

P/N 74577 – 8 oz.
P/N 74576 – 32 fl. oz.

(Commercial Gel and Spray – Destroys odor on a molecular level)

Non-toxic **GreenWāv** natural odor eliminators effectively remove both organic and inorganic malodors from the air, laundry, carpet, upholstery and other surfaces. Notice we did not say mask odors! **GreenWāv** products chemically bond with odor causing molecules and eliminate them completely without leaving a lingering fragrance. Made with natural, non-toxic and biodegradable active ingredients. They are safe for use around people and animals in a variety of settings/facilities.

Features:

Commercial Gel

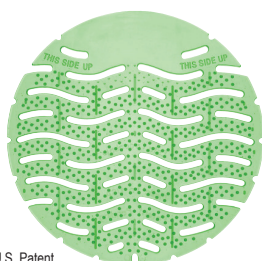
- Eliminates odor in the air.
- The continuous release formulation works around the clock, providing 24/7 odor control.
- For combating persistent odor problems that may not be avoidable or correctable.
- Use Dispenser P/N 1820

Air & Surface Spray

- For rapid targeted odor control.
- Instantly bonds to and eliminates odor molecules in the air and those that have penetrated and/or are resting on surfaces.
- Can also be added to mop buckets, humidifiers or fogging equipment for large areas.

Applications:

- | | | | |
|------------------------|----------------------|---------------------|---------------------|
| • Hospitals | • Offices/Warehouses | • Restaurants | • Fleet |
| • Nursing Homes | • Cafeterias | • Health Clubs | • Maintenance Shops |
| • Schools/Universities | • Shopping Malls | • Sports Arenas | • Garages |
| • Hotels/Motels | • Theaters | • Indoor Play Areas | |



U.S. Patent
#8,007,707
Additional patent pending



Urinal Deodorant Screens

For fragrances and
P/Ns, see table below.

(Freshens Urinal for 30 Days – 15x more fragrance which is gradually released over 30 days versus a vinyl urinal screen)

Releases billions of optimized bacteria that clean the urinal and eliminate odors.
Recommended by the #1 Manufacturer of waterless urinals – Falcon Waterfree Technologies.

Features:

- Complies with VOC requirements – available for sale in all 50 states, North America & Europe.
- Saves Time & Money – Revolutionary design reduces splash back while optimizing fragrance release - cutting cleaning time by up to 50%.
- Translucent Flexible Design – Allows full view of urinal drain to ensure optimal drain flow while trapping debris.
- Meets the “Purchase of Sustainable Cleaning Products and Materials” criteria under the LEED point management system.



Fragrance	P/N	Color
Herbal Mint	74473	
Honeysuckle	74474	
Kiwi Grapefruit	74475	
Fabulous	74442	
Wintergreen	74476	
Ocean Mist	74483	
Mango	74477	
Citrus	74478	
Spiced Apple	74479	
Cotton Blossom	74480	
Guava Pineapple	74481	
Cucumber Melon	74482	

Odor Eliminators



Metered Mist

(Long Lasting Concentrated Dry Spray Neutralizer for Dispensers)

For use in automatic dispensers. Delivers maximum fragrance and odor control with measured releases. Finely atomized spray carries farther and lasts longer than other leading brands.

<u>Description</u>	<u>Part No.</u>	<u>Size</u>
Red Clover Tea	74433	7.25 oz.
Cucumber Melon	74434	7.25 oz.
Citrus Creme	74460	7.25 oz.
Fruit Basket	74461	7.25 oz.
Powder Fresh	74462	7.25 oz.
Vanilla Delight	74463	7.25 oz.
Pine Forest	74464	7.25 oz.
Fresh Linen	74465	7.25 oz.
Piña Colada	74466	7.25 oz.



Use metered mist dry spray neutralizer with the metered mist dispenser, P/N 1817.

Features:

- Neutralizes malodors
- Long lasting control
- Dry spray, no fallout
- Leaves a pleasant scent
- Non-Staining
- Non-Chlorinated
- No CFC's

Applications:

- Anywhere odor is a problem
- Bathrooms
- Locker rooms
- Hospitals and nursing homes
- Smoking areas
- Motels
- Restaurants



Metered Mist Variety Packs

Multiple scents bundled together in two easy-to-order "Variety Packs".

Variety Pack, P/N 200145

- Citrus Creme P/N 74460
- Fruit Basket P/N 74461
- Powder Fresh P/N 74462
- Vanilla Delight P/N 74463
- Pine Forest P/N 74464
- Fresh Linen P/N 74465

Variety Pack II, P/N 200177

- Red Clover Tea P/N 74433
- Cucumber Melon P/N 74434
- Citrus Creme P/N 74460
- Fruit Basket P/N 74461
- Powder Fresh P/N 74462
- Fresh Linen P/N 74465

Pleasant Scent™

(Chemically destroys toughest odors)

A highly refined blend of chemicals designed to destroy odors of putrefaction, defecation, regurgitation, urination and many other malodors. It is easy to apply with a trigger sprayer or fogging unit and is biodegradable, phosphate free and nonflammable.

Features:

- Chemically destroys the toughest malodors
- Easy to use as an air or surface spray
- Does not mask odors
- Biodegradable

Applications:

- Hospitals/Laboratories • Mortuaries • Motels • Factories • Rest Rooms • Kennels
- Airplanes • Etc.

Instructions:

Use full strength or dilute with water. Dilutes up to 10:1.

Part #74230-74234 – Lemon-Lime Scent

Part #74225-74229 – Green Apple Scent

Part #74230 & 74225:
55 Gallon Drum

Part #74231 & 74226:
30 Gallon Drum

Part #74233 & 74228:
5 Gallon Pail

Part #74234 & 74229:
1 Gallon Container
(Buy 4 x 1 Gal)

Dispensing Equipment

Metered Mist Dispenser

Part #1817

Automatic wall mounted dispenser delivers maximum fragrance and odor control with measured releases. Finely atomized spray carries farther and lasts longer than other leading brands.

Red Lion™ Metered Mist

- Neutralizes Malodors
- Long Lasting Control
- Dry Spray, No Fall out
- Leaves a pleasant scent
- Non-Staining
- Non-Chlorinated, No CFC's

Use Anywhere Odor is a Problem

- Bathrooms
- Locker rooms
- Hospitals
- Nursing homes
- Smoking areas
- Motels
- Restaurants

Note: D-cell battery required, not included.



Eco-Friendly Chemicals

Red Lion™ 32 oz. Spray Bottles For Eco-Friendly Chemicals



32 oz. Spray Bottle for Eco-Friendly Multi-Purpose Cleaner
Meets the requirements of the GS-37 Green Seal™ Standard. Provides top-tier performance for cleaning floors, walls, chrome, stainless steel, table tops, vinyl, sealed wood and many other surfaces not harmed by water.

P/N 74067B (32 oz. Bottle)



32 oz. Spray Bottle Eco-Friendly Glass & Window Cleaner
Designed to meet the requirements of GS-37, the Green Seal™ Standard for Glass Cleaner. Eco-Friendly Glass & Window Cleaner has been formulated with completely biodegradable surfactants and other naturally derived ingredients. This non-toxic glass, window and multi-purpose cleaner provides top-tier performance. It is alcohol-free, ammonia-free, non-streaking and fast drying.

P/N 74070B (32 oz. Bottle)



32 oz. Spray Bottle Eco-Friendly Tub & Tile Cleaner
A highly concentrated, non-corrosive, non-fuming, tub & tile cleaner. This product meets the requirements of the GS-37 Green Seal™ Standard. It is formulated with a low pH organic salt capable of replacing a wide range of traditional acids. Provides top-tier performance for cleaning tubs, tile, grout, walls, toilet bowls, urinals, shower stalls and other bathroom surfaces.

P/N 74073B (32 oz. Bottle)



32 oz. Spray Bottle Eco-Friendly Peroxide Cleaner
A highly concentrated, multi-purpose cleaner providing top-tier performance as a Glass Cleaner, Multi-Purpose Cleaner and a Restroom Cleaner depending upon dilution. Eco-Friendly Peroxide Cleaner meets the requirements of the GS-37 Green Seal™ Standard. It has a pleasant orange scent.

P/N 74076B (32 oz. Bottle)

Dispenser Features



Dispensing Equipment

Red Lion™ Blend Mate Wall Dispensers

A mounted dispenser for automatic dilution/metering of Eco-Friendly cleaners into secondary containers (32 oz. bottle or bucket fill) in ready to use form.

P/N 1822 – Peroxide Cleaner Wall Dispenser

P/N 1824 – Multi-Purpose Cleaner Wall Dispenser

P/N 1826 – Glass & Window Cleaner Wall Dispenser

P/N 1828 – Tub & Tile Cleaner Wall Dispenser

Uses

Convenient wall mount in janitors closets, housekeeping/maintenance rooms, etc.

Features

- Gray high density plastic cabinet
- Installation Materials Included: Mounting hardware, water inlet hose, 2 locking keys, appropriate metering tips installed by the factory according to product used.
- Cabinet Size: 22" high x 6-1/2" width x 7-3/4" depth. Up to 4 cabinets can be linked together with a single cold water source.

Available Types

Eco-Friendly Glass & Window Cleaner:

- 1 button
- 32 oz. bottle
- pre-set dilution

Eco-Friendly Multi Purpose Cleaner:

- 2 button
- 32 oz. bottle & bucket fill
- 3 dilution selector

Eco-Friendly Tub & Tile Cleaner:

- 2 button
- 32 oz. bottle & bucket fill
- 3 dilution selector

Eco-Friendly Peroxide Cleaner:

- 2 button
- 32 oz. bottle & bucket fill
- 2 dilution selector



Multi Purpose
Cleaner Dispenser



Glass & Window
Cleaner Dispenser



Tub & Tile
Cleaner Dispenser



Peroxide Cleaner
Dispenser

Dispensing Equipment

Red Lion™ Blend Mate Wall Dispensers

Directions For Use

1. Hang cabinet on wall using mounting screws provided, making sure water hose will reach water source.
2. Connect black 6' water hose to upper right side of dispenser cabinet and water source.
3. Using key(s) provided, unlock cabinet.
4. Remove cap from gallon bottle of concentrate and place inside dispenser cabinet, inserting draw tube into bottle.
5. Close and lock cabinet.
6. Following direction label on front of dispenser, turn toggle switch to desired dilution strength. Insert clear plastic fill tube into spray bottle or mop bucket and push appropriate button to activate flow.



Eco-Friendly Chemicals

Use Blend Mate Wall Dispensers and 32 oz. Spray Bottles With The Following:



Eco-Friendly Multi-Purpose Cleaner
Meets the requirements of the GS-37 Green Seal™ Standard. Provides top-tier performance for cleaning floors, walls, chrome, stainless steel, table tops, vinyl, sealed wood and many other surfaces not harmed by water.

P/N 74067 (1 gal. Container)



Eco-Friendly Glass & Window Cleaner
Designed to meet the requirements of GS-37, the Green Seal™ Standard for Glass Cleaner. Eco-Friendly Glass & Window Cleaner has been formulated with completely biodegradable surfactants and other naturally derived ingredients. This non-toxic glass, window and multi-purpose cleaner provides top-tier performance. It is alcohol-free, ammonia-free, non-streaking and fast drying.

P/N 74070 (1 gal. Container)



Eco-Friendly Tub & Tile Cleaner
A highly concentrated, non-corrosive, non-fuming, tub & tile cleaner. This product meets the requirements of the GS-37 Green Seal™ Standard. It is formulated with a low pH organic salt capable of replacing a wide range of traditional acids. Provides top-tier performance for cleaning tubs, tile, grout, walls, toilet bowls, urinals, shower stalls and other bathroom surfaces.

P/N 74073 (1 gal. Container)



Eco-Friendly Peroxide Cleaner
A highly concentrated, multi-purpose cleaner providing top-tier performance as a Glass Cleaner, Multi-Purpose Cleaner and a Restroom Cleaner depending upon dilution. Eco-Friendly Peroxide Cleaner meets the requirements of the GS-37 Green Seal™ Standard. It has a pleasant orange scent.

P/N 74076 (1 gal. Container)

Dispensing Equipment

Dispenser for GreenWāv Commercial Gel

P/N 1820

GreenWāv Commercial Gel eliminates odor in the air. The continuous release formulation works around the clock, providing 24/7 odor control. Especially effective for combating persistent odor problems that may not be avoidable or correctable.

Features

- The dispenser holds one jar of 8 oz. gel.
- Can be easily mounted to most surfaces.
- Functional and subtle; hides the product out of sight allowing it to work discreetly.
- ADA Compliant.



Sure-Shot Sprayer

P/N 1700

Refillable, rechargeable and completely portable, the Sure Shot Sprayer features metal construction, brass nozzles, and corrosion resistant internal working parts.

Features

- 32 oz. liquid capacity
- Red epoxy powder coated finish
- Can be used with oil and solvent based materials
- Works great for cleaners, degreasers, penetrating oils, brake cleaners, and solvents
- Just fill the sprayer two-thirds with product, pressurize to 80 - 150 psi and spray.



Accessory Kits

Nozzle Kit, P/N 50016

- Coarse Spray Nozzle
- Extra Fine Spray Nozzle
- Fine Spray Nozzle
- Flat Spray Nozzle
- Plastic Adjustable Nozzle With Adapter

Nozzle Extension, P/N 50017

Use 12" Nozzle Extension With:

- Pin Stream Nozzle
- Regular Spray Nozzle
- Coarse Spray Nozzle
- Extra Fine Spray Nozzle
- Flat Spray Nozzle

Repair Kit, P/N 50018

- Inner Adapter Washer
- Valve and Valve Spring
- Valve Spring
- Stuffing Box Packing
- Stuffing Box Nut
- Cotter Pin
- Valve Trigger
- Filler Cap Assembly
- Regular Spray Nozzle
- Valve Seat Adapter (Male)
- Outer Adapter Washer

Plastic Tank Sprayer

P/N 1687

Pressurized plastic tank sprayer with relief valve and adjustable nozzle. Shut-off valve in handle. Capacity: 2 gallons. Weight: 6 lbs.



Compressed Air Sprayer

P/N -1688

High pressure polyethylene compressed air sprayer sprays fine mist. Adjustable nozzle. Hand held. Capacity: 2 quarts. Weight: 2 lbs.



Dispensing Equipment

Spray Can Tool

Part #1818

FullGrip trigger with double leverage action provides effortless spray control. FutureLock attachment ring makes attaching and removing cans easy.

Features

- Fits 100% of all standard spray cans.
- Optimized design uniquely positions the relationship between the handle, trigger and spray can, providing greater balance while eliminating finger, wrist and forearm strain
- Patent pending design reduces SqueezeForce (the amount of pressure required to actuate a spray can's nozzle) by up to 80% compared to our competition
- ComfortTouch patent pending handle and trigger design
- Contoured, ergonomic gripping surfaces correspond to the natural angles and positions of the fingers, hand, palm, wrist and forearm
- Arthritis-friendly design
- Made in the USA



Trigger Sprayer Plastic Bottles

Part #1690

16 oz. plastic bottle with adjustable nozzle to give a spray from mist to jet.

Part #1698

32 oz. plastic bottle with adjustable nozzle to give a spray from mist to jet.



Trigger Sprayer

Part #1801

Heavy duty quality trigger sprayer is engineered for a variety of liquids. A comfortable trigger type operation and large fine spray pattern makes any job easier.

- Nozzle adjusts from fine mist to a jet stream.
- Resists organic and acidic chemicals.



Part #1697

All-purpose trigger sprayer for 32 oz. plastic bottle.

Foamer Trigger Sprayer

Part #1699

Foamer trigger sprayer creates a thick sudsy blanket for heavy soil removal. Adapts to 16 oz. and 32 oz. bottles.



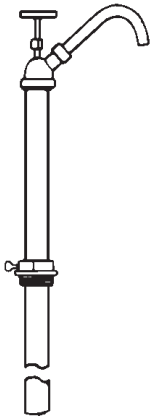
36 oz. Measurable Bottle

Part #1800

36 oz. PVC clear bottle multi-measured with printed oz./ml. dilution scale.



Dispensing Equipment



Plastic Drum Pump

Part #1692

Lift style 22 ounces per full stroke. Fits any 15, 20, 30, 35 and 55 gallon drum. Head threaded to fit 3/4" hose coupling.

Metal Drum Pump

Part #1694

Lift style 22 ounces per full stroke. Unplated. Bung bushing will fit any 15, 20, 30, 35 and 55 gallon drum. Head threaded to fit 3/4" hose coupling.

Drum Dolly



Part #1804

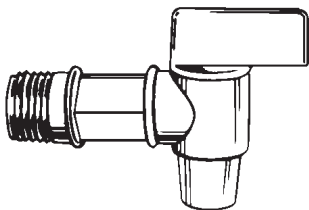
- Welded steel
- Supports 400 lbs.
- For 55 gallon size drums
- 24" diameter
- Durable 3" steel swivel wheels



2" Drum Faucet

Part #1803

HIGH FLOW – Durable polyethylene drum faucet in 2" diameter for general purpose use.



Drum Faucet

Part #1695

3/4" polyethylene drum faucet for easy flow and instant control.



Rotary Barrel Pump

Part #1808

A precision built pump for transferring non-corrosive petroleum based fluids, of light to medium viscosity, at a rate of approximately one gallon per 18 revolutions with SAE 10 oil. For industrial, commercial, automotive and agricultural applications.

- Rugged cast iron pump housing
- Heavy duty vanes with steel springs adjust automatically
- All steel discharge spout
- Steel suction pipe

Plastic Syphon Pump

Part #1693

Plastic syphon pump with universal adapter. Fits openings 3/4" to 1-3/8" inside diameter. Use with 5, 6 and 10 gallon pails.



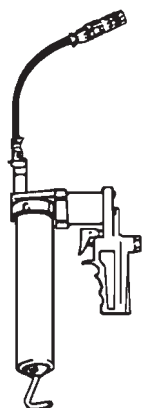
Drum Wrench



Part #1802

12" aluminum / magnesium alloy for plastic or metal. Opens all standard 3/4" and 2" bungs.

Dispensing Equipment



Air Operated Grease Gun **Part #8200**

Designed for the automotive, truck, agricultural and industrial professional. Three way loading feature uses standard 14.5 oz. grease cartridge, bulk grease and grease filler pump. Easy to disassemble and clean. Complete with flexible grease hose and heavy-duty 4-claw coupler. Handy storage locating ring. Pressure ratio – 50:1. Air pressure required – 30-120 psi. Suggested working air pressure – 90 psi.

Professional Grease Gun

Part #8218

All steel construction with heavy-duty epoxy finish provides resistance to rust, acids and salts. Easy three-way loading with 14.5 oz. cartridge, suction filled up to 16 oz. and from grease gun filler. Complete with bulk loader fitting to quickly adapt to bulk fillers, 6" angle pipe and heavy-duty coupler, with a spring loaded ball check valve. Weight: 4 lbs. 11 oz.



12-Volt Cordless Grease Gun

Ideal maintenance tool for farms, fleets, factories and shops. Includes two 12-volt NiCad rechargeable batteries, a 1-hour charger, 30 in. flexible hose and a durable carrying case for long-lasting protection and storage. Delivers up to 7000 psi. Holds 14 oz. grease cartridge. No pumping required. Cartridge and bulk loading. Planetary gear drive. Machined and hardened piston. Plated steel barrel.



Part #9571

**Part #9571B
Battery Only**

Flexi Grease Gun **Part #8217**

Hi-pressure, professional grease gun produces up to 7,500 psi. Easy grip handle allows for single hand operation. Flexible extension is also included.



Air Operated Grease Gun Kit



Part #38200

Continuously pumps grease while trigger is depressed. "Butterfly-Lock" screw enables grip handle to rotate 360°. 3-way loading – 14 oz. cartridge, bulk or suction. Delivers up to 6,000 psi. 90 psi recommended inlet pressure. Manual operated grease gun head cap converts gun to standard manually operated lever gun.

CONTAINS 28 PIECES IN A HANDY CARRYING CASE!

- Air Operated Grease Gun
- 5-3/8" Extension Pipe
- 12" High Pressure Whip Hose
- Manual Operated Gun Head
- 1/4" Quick Release Coupler
- 1/4" Hose Fitting
- Grease Coupler
- Grease Fittings (10)
- Combination Wrenches (6)
- 6" Long Nose Plier
- 8" Slip Joint Plier
- 4" x 6mm Screwdriver
- 4" x 6mm Phillips Head Screwdriver
- 5mm Hex Key Wrench



Mini Lube Unit

Part #8216

Professional hand powered lubricator for fast, clean greasing. Develops pressure of up to 10,000 psi, while providing 30 grease shots per pump. This push button 2 speed lubricator will fit all standard 7 lb. grease tins.

Dispensing Equipment

3M Fire Barrier Foam FIP 1-Step, Guns



**HandyMax® HMS-G4C2
Manual Gun**

P/N 9572



**PowerMax® HPS-4C2
Battery-Powered Gun**

P/N 9573

Grease Oil Pump

P/N 16509

Dual cup Buna-N rubber plunger. All steel construction. Needs no priming. Capacity over one pint. Twelve inch vinyl hose. One piece handle. Will handle all non-corrosive fluids.



Drop-Tite™ Epoxy System Dual Cartridge Caulking Gun



P/N 8250

Designed with an in-line rod system and special friction plate to provide exceptional force. Dispenses faster and reduces worker exertion and fatigue.



Caulking Gun – Smooth Rod

P/N 8253

Hex smooth-rod design with thumb release and poker. Uses standard 10 oz. 8-1/2" drop-in cartridges. High carbon, heat treated steel and riveted construction. Easy to use with a solid grip and trigger to reduce hand fatigue.

Zinc electro-plated working parts provide corrosion resistance to the elements and a wide variety of caulking materials. Heavy-duty (.060) steel for durability and long working life.

AutoDose™ Drain Manager

P/N 1816



Utilizing the flexible programming capabilities of the AutoDose line of dispensers allows the user to dose drains, cooling towers, boilers, pools, lubrication systems or other areas at the appropriate times. An easily programmed timer turns the pump on and off to ensure the regular dosing of chemicals.

- Corrosion resistant cabinet fitted to pail or wall for demanding environments
- Easy to program timer with pin lockout for security
- During normal operation, the timer runs on the same power source as the pump, simplifying system maintenance (only one set of batteries to replace)
- Internal backup battery in timer maintains program even when main power source is disconnected or inoperative
- Automatic battery-life monitoring technology ensures dosing accuracy throughout life of battery
- No tools required for maintenance of pump assembly
- Low battery indicator
- Maximum flexibility for customized dosing
- Choice of days, time (AM or PM) and dosings (in one ounce or 30 ml increments)
- Up to 24 dosing periods per 24 hours
- Capability to dose every day, or just on specific days

Centerfeed Dispenser

P/N 1788

These dispensers simplify and complement any environment, providing a clean, hygienic appearance. The design ensures easy and intuitive maintenance, refilling and use. Ideal for high traffic environments. No cross contamination from levers or cranks. The portion control feature dispenses one towel every time. Simple and reliable.

- For Hand Towels, P/N 28237



Center-Pull Dispenser

P/N 1789

This dispenser offers single-sheet release requiring only one hand to tear off. Made of tough impact resistant materials. One of the most vandal-proof, break resistant, chemical and flame resistant products for heavy use applications.

- For Wipes, P/Ns 28235 & 28236



Dispensing Equipment

Sani-Smooth Dispenser

P/N 1819

For hanging and dispensing Red Lion™ Sani-Smooth foaming aerosol hand sanitizer (P/N 74486). Provides convenience and portability. Mounting hardware included.



Wall Mount Hand Cleaner Pump Dispenser

This universal dispenser allows metered use of Red Lion H.D. Citrus Scrub Hand Cleaner. Consistently controls the amount of hand cleaner dispensed, eliminating waste. Designed to offer years of trouble-free service.

P/N 1806

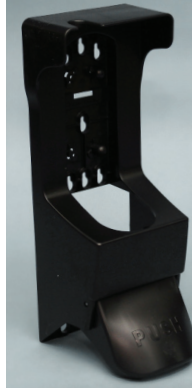


SOAP DISPENSER / 85 FL. OZ. BOTTLES

Black Dispenser, P/N 1832

For use with:

- P/N 74629 Antimicrobial Hand Cleaner and Sanitizer



DESCRIPTION	PART
Soap Dispenser, for 85 fl. oz. Bottles	1832

SOAP DISPENSER / 120 FL. OZ. BOTTLES

Gray Dispenser, P/N 1830

For use with 120 fl. oz. Bottles

For use with:

- P/N 74630 Heavy Duty Scrub Hand Soap
- P/N 74631 H.D. Citrus Hand Soap
- P/N 74471 Cherry Impact Hand Soap
- P/N 74458 Magic Hand Soap



DESCRIPTION	PART
Soap Dispenser, for 120 fl. oz. Bottles	1830



Traffic Marking Machine

P/N 1810

Designed exclusively for Traffic Striping Marker Paints. Applies clean, crisp even stripes or marks from 2" to 4". Use on porous surfaces ranging from asphalt to concrete.



Athletic Marking Machine

P/N 1811

Designed with larger wheels and to be used exclusively with Athletic Field Striping Paints only. Ready to use and requires no accessories. Allows applications of lines up to 2" to 4" on athletic fields or other turf surfaces.

Marking Wand

Part #1812

Easy loading. Machine is ready to use and requires no accessories. 33" overall extension and light touch makes marking simple and accurate. Nickel zinc plating makes it durable and corrosion resistant. Great for golf courses, utilities, surveyors, contractors and more.



Traffic Marking Applicator

P/N 1809

Designed for heavy-duty paint application where a wider stripe is required. For use on concrete, asphalt and athletic fields. Easy loading, with light touch control that makes marking simple and accurate.

Use with all 20 oz. Traffic or Athletic Marker Paints only.

Bulk Chemical Dilution Chart

GAL. COST	PRICE PER GALLON AT STANDARD DILUTIONS									
	1:8	1:10	1:12	1:16	1:20	1:25	1:32	1:40	1:64	1:128
\$5.00	0.56	0.45	0.38	0.29	0.24	0.19	0.15	0.12	0.08	0.04
6.00	0.67	0.55	0.46	0.35	0.29	0.23	0.18	0.15	0.09	0.05
7.00	0.78	0.64	0.54	0.41	0.33	0.27	0.21	0.17	0.11	0.05
8.00	0.89	0.73	0.62	0.47	0.38	0.31	0.24	0.20	0.12	0.06
9.00	1.00	0.82	0.69	0.53	0.43	0.35	0.27	0.22	0.14	0.07
10.00	1.11	0.91	0.77	0.59	0.48	0.38	0.30	0.24	0.15	0.08
11.00	1.22	1.00	0.85	0.65	0.52	0.42	0.33	0.27	0.17	0.09
12.00	1.33	1.09	0.92	0.71	0.57	0.46	0.36	0.29	0.18	0.09
13.00	1.44	1.18	1.00	0.76	0.62	0.50	0.39	0.32	0.20	0.10
14.00	1.56	1.27	1.08	0.82	0.67	0.54	0.42	0.34	0.22	0.11
15.00	1.67	1.36	1.15	0.88	0.71	0.58	0.45	0.37	0.23	0.12
16.00	1.78	1.45	1.23	0.94	0.76	0.62	0.48	0.39	0.25	0.12
17.00	1.89	1.55	1.31	1.00	0.81	0.65	0.52	0.41	0.26	0.13
18.00	2.00	1.64	1.38	1.06	0.86	0.69	0.55	0.44	0.28	0.14
19.00	2.11	1.73	1.46	1.12	0.90	0.73	0.58	0.46	0.29	0.15
20.00	2.22	1.82	1.54	1.18	0.95	0.77	0.61	0.49	0.31	0.16
21.00	2.33	1.91	1.62	1.24	1.00	0.81	0.64	0.51	0.32	0.16
22.00	2.44	2.00	1.69	1.29	1.05	0.85	0.67	0.54	0.34	0.17
23.00	2.56	2.09	1.77	1.35	1.10	0.88	0.70	0.56	0.35	0.18
24.00	2.67	2.18	1.85	1.41	1.14	0.92	0.73	0.59	0.37	0.19
25.00	2.78	2.27	1.92	1.47	1.19	0.96	0.76	0.61	0.38	0.19
26.00	2.89	2.36	2.00	1.53	1.24	1.00	0.79	0.63	0.40	0.20
27.00	3.00	2.45	2.08	1.59	1.29	1.04	0.82	0.66	0.42	0.21
28.00	3.11	2.55	2.15	1.65	1.33	1.08	0.85	0.68	0.43	0.22
29.00	3.22	2.64	2.23	1.71	1.38	1.12	0.88	0.71	0.45	0.22
30.00	3.33	2.73	2.31	1.76	1.43	1.15	0.91	0.73	0.46	0.23
31.00	3.44	2.82	2.38	1.82	1.48	1.19	0.94	0.76	0.48	0.24
32.00	3.56	2.91	2.46	1.88	1.52	1.23	0.97	0.78	0.49	0.25
33.00	3.67	3.00	2.54	1.94	1.57	1.27	1.00	0.80	0.51	0.26
34.00	3.78	3.09	2.62	2.00	1.62	1.31	1.03	0.83	0.52	0.26
35.00	3.89	3.18	2.69	2.06	1.67	1.35	1.06	0.85	0.54	0.27
36.00	4.00	3.27	2.77	2.12	1.71	1.38	1.09	0.88	0.55	0.28
37.00	4.11	3.36	2.85	2.18	1.76	1.42	1.12	0.90	0.57	0.29
38.00	4.22	3.45	2.92	2.24	1.81	1.46	1.15	0.93	0.58	0.29
39.00	4.33	3.55	3.00	2.29	1.86	1.50	1.18	0.95	0.60	0.30
40.00	4.44	3.64	3.08	2.35	1.90	1.54	1.21	0.98	0.62	0.31
45.00	5.00	4.09	3.46	2.65	2.14	1.73	1.36	1.10	0.69	0.35
50.00	5.56	4.55	3.85	2.94	2.38	1.92	1.52	1.22	0.77	0.39
55.00	6.11	5.00	4.23	3.24	2.62	2.12	1.67	1.34	0.85	0.43
60.00	6.67	5.45	4.62	3.53	2.86	2.31	1.82	1.46	0.92	0.47
65.00	7.22	5.91	5.00	3.82	3.10	2.50	1.97	1.59	1.00	0.50

R-134a Lubricant Reference Chart

R-134a LUBRICANT REFERENCE CHART

The Following Compressors Utilize Factory Filled PAG Lubricants.

VEHICLE MANUFACTURER	COMPRESSOR MANUFACTURER	COMPRESSOR MODEL	OEM LUBRICANT NUMBER	CoolPro LUBRICANT VISCOSITY	SYSTEM LUBRICANT CAPACITY	
					OUNCES	MILLILITERS
Acura	Nippondenso	10P	ND8	PAG 46	6-7	177-207
Alfa Romeo	Sanden	SDV	SP10	PAG 46	4	118
Audi	Diesel Kiki/Zexel	DCW	ZXL100	PAG 46	5-6	148-177
Audi	Nippondenso	10P	ND8	PAG 46	6-7	177-207
BMW	Seiko Seiki	SS	SX10	PAG 46	6	177
BMW	Nippondenso	10P	ND8	PAG 46	6-7	177-207
BMW	Bosch / Behr	Wing	-	PAG 46	6-7	177-207
BMW	Bosch / Behr	Axial	-	PAG 100	5-6	148-177
Chrysler	Nippondenso	10PA	ND8	PAG 46	6-7	177-207
Chrysler	Nippondenso	6C / 6CA	ND8	PAG 46	8-9	237-266
Chrysler	Sanden	TR / TRS	SP10	PAG 46	6	177
Chrysler	Sanden	SD	SP20	PAG 100	5	148
Chrysler	Mitsubishi	FX	P56	PAG 46	9-10	266-296
Jeep / Eagle	Sanden	SD	SP20	PAG 100	5	148
Jeep / Eagle	Sanden	TR	SP10	PAG 46	4-5	118-148
Jeep / Eagle	Nippondenso	10P / 10PA	ND8	PAG 46	6-7	177-207
Citroen	Sanden	SD7	SP20	PAG100	5	148
Ferrari	Sanden	SDV	SP10	PAG 46	4	118
Fiat	Sanden	SD7	SP20	PAG 100	5-6	148-177
Ford	Ford	FS10 / FX15	YN12 / 12A	PAG46	7	207
Ford	Nippondenso	10P / 10PA	ND8	PAG 46	6-7	177-207
Ford	Sanden	SD	SP20	PAG 100	5	148
Ford	Panasonic	Rotary	YN12 / 12A	PAG 46	4-5	118-148
G.M.	Delphi / Harrison	V5 Retro	12346305	PAG 150	8	237
G.M.	Delphi / Harrison	V5 R-134a	12345923	PAG 150	8	237
G.M.	Delphi / Harrison	HR6 / HD6 / HT6	12345923	PAG 150	8	237
G.M.	Delphi / Harrison	R4	12345923	PAG 150	4-5	118-148
G.M.	Nippondenso	10PA	ND8	PAG 46	6-7	177-207
G.M.	Sanden	SD7	SP20	PAG 100	5	148
G.M.	Sanden	SD5	SP20	PAG 100	6	177
Geo	Nippondenso	10PO	ND8	PAG 46	5-6	148-177
G.M. Saturn	Diesel Kiki/Zexel	DKV	ZXL200	PAG 150	6-7	177-207

R-134a Lubricant Reference Chart

R-134a LUBRICANT REFERENCE CHART

The Following Compressors Utilize Factory Filled PAG Lubricants.

VEHICLE MANUFACTURER	COMPRESSOR MANUFACTURER	COMPRESSOR MODEL	OEM LUBRICANT NUMBER	CoolPro LUBRICANT VISCOSITY	SYSTEM LUBRICANT CAPACITY	
					OUNCES	MILLILITERS
G.M. Saturn	Diesel Kiki/Zexel	DCV	ZXL200	PAG 150	5-6	148-177
Honda	Sanden	TR	SP10	PAG 46	6	177
Honda	Sanden	SD	SP20	PAG 100	5-6	148-177
Honda	Nippondenso	10P	ND8	PAG46	6-7	177-207
Honda	Nippondenso	HADSYS. 7 Cyl.	SP10	PAG 46	5-6	148-177
Hyundai	Ford	FS10	YN12 / 12A	PAG 46	7	207
Hyundai	Halla	FX15 / HS10	FD46X6	PAG 46	6-7	177-207
Infiniti	Zexel	-	Type R	PAG 150	4-5	118-148
Infiniti	Calsonic	CVW	Type S	PAG 46	7-8	207-237
Infiniti	Zexel	-	Type S	PAG 46	6-7	177-207
Isuzu	Zexel	-	ZXL100	PAG 46	4-5	118-148
Isuzu	G.M.	V5	12345923	PAG 150	8	237
Isuzu	Diesel Kiki/Zexel	KC50	ZXL200	PAG 150	5-6	148-177
Isuzu	Diesel Kiki/Zexel	Rotary	ZXL100	PAG 46	4-5	118-148
Jaguar	Sanden	SD7H	SP20	PAG 100	5	148
Jaguar	Sanden	SD	SP20	PAG 100	6	177
Lamborghini	Sanden	SD7	SP20	PAG 100	5	148
Lancia	Sanden	SD7	SP20	PAG 100	5	148
Land Rover	Sanden	TRS	SP10	PAG 46	4	118
Land Rover	Sanden	SD7	SP20	PAG 100	5	148
Lexus	Nippondenso	10PA	ND8	PAG 46	6-7	177-207
Lotus	Sanden	SD	SP20	PAG 46	6	177
Mazda	Panasonic	Rotary	ATM0S10	PAG 46	3-4	89-118
Mazda	Nippondenso	TV	ND9	PAG 100	6	177
Mazda	Ford	FS10	YN12 / 12A	PAG 46	7	207
Mazda	Sanden	SD	SP20	PAG 100	5	148
Mercedes	Nippondenso	6CA	ND8	PAG 46	8-9	237-266
Mercedes	Nippondenso	10P / 10PA	ND8	PAG 46	6-7	177-207
Mitsubishi	Mitsubishi	FX / MSC	P56	PAG 46	4-5	118-148
Mitsubishi	Nippondenso	10P / 10PA	P56	PAG 46	6-7	177-207

R-134a Lubricant Reference Chart

R-134a LUBRICANT REFERENCE CHART

The Following Compressors Utilize Factory Filled PAG Lubricants.

VEHICLE MANUFACTURER	COMPRESSOR MANUFACTURER	COMPRESSOR MODEL	OEM LUBRICANT NUMBER	CoolPro LUBRICANT VISCOSITY	SYSTEM LUBRICANT CAPACITY	
					OUNCES	MILLILITERS
Nissan	Diesel Kiki/Zexel	DKV / DCV	Type R	PAG 150	6-7	177-207
Nissan	Calsonic	Rotary	Type S	PAG 46	6-7	177-207
Nissan	Diesel Kiki/Nihon	DKS / Rotary	Type S	PAG 46	7-8	207-237
Nissan	Diesel Kiki/Zexel	DKV / Rotary	ZXL200	PAG 150	6-7	177-207
Opel	Delphi / Harrison	V5	12345923	PAG 150	8	237
Porsche	Nippondenso	10P	ND8	PAG 46	6-7	177-207
Peugeot	Sanden	SD7	SP20	PAG 100	5	148
Renault	Sanden	SDV	SP10	PAG 46	4	118
Renault	Sanden	SD7	SP20	PAG 100	5	148
Renault	Sanden	TRS	SP10	PAG 46	4	118
Rolls Royce	Sanden	SDV	SP10	PAG 46	4	118
Rover	Sanden	SD7	SP20	PAG 100	5	148
Rover	Sanden	SDV	SP10	PAG 46	4	118
Rover	Nippondenso	10P	ND8	PAG 46	6-7	177-207
Saab	Seiko Seiki	SS	S10X	PAG 46	5-6	148-177
Seat	Sanden	SDV	SP10	PAG 46	4	118
Skoda	Sanden	SD7	SP20	PAG 100	5	148
Subaru	Zexel	Rotary	Type R	PAG 150	6-7	177-207
Subaru	Diesel Kiki	15CH	ZXL100	PAG 46	6	177
Suzuki	Sanden	SD	SP20	PAG 100	6	177
Suzuki	Nippondenso	10P	ND8	PAG 46	6-7	177-207
Toyota	Nippondenso	10P / 10PA	ND8	PAG 46	6-7	177-207
Toyota	Nippondenso	TV	ND9	PAG 100	6	177
Vauxhaul (GM)	Delphi / Harrison	V5	12345923	PAG 150	8	237
Volkswagen	Sanden	SD / SD7	SP20	PAG 100	5-6	148-177
Volkswagen	Sanden	SDV	SP10	PAG 46	4	118
Volvo	Seiko Seiki	SS	S10X	PAG 46	5-6	148-177
Volvo	Sanden	SD / SD7	SP20	PAG 100	5-6	148-177

R-134a Lubricant Reference Chart

R-134a LUBRICANT REFERENCE CHART

The Following Compressors Utilize Factory Filled POE Lubricants.

POE 100 Lubricant Can Be Used For Retrofitting All R-12 Compressor Models.

VEHICLE MANUFACTURER	COMPRESSOR MANUFACTURER	COMPRESSOR MODEL	OEM LUBRICANT #	SYSTEM LUBRICANT CAPACITY (OUNCES)
Jaguar	Sanden	SD7H15	POE 100	5
Jaguar	Sanden	SD5H15	POE 100	6
Jaguar	Delphi / Harrison	R4	POE 100	5.5-6.5
Jaguar	Diesel Kiki	DKS	POE 100	5-6
SAAB	Seiko Seiki	SS170PSS	POE 100	6-7
SAAB	Seiko Seiki	SS808	POE 100	6
SAAB	Sanden	SD5H15	POE 100	6
Volvo	Diesel Kiki	DKS	POE 100	6-6.5
Volvo	Sanden	SD510	POE 100	5

R-134a Lubricant Reference Chart

CAUTION: While great care was taken to construct these charts with OEM information, it is always best to consult with the compressor or vehicle manufacturer on the exact lubricant type and capacity. This information can also be found on each compressor model tag.

COMPRESSOR OIL CHECK (ALL COMPRESSORS)

When servicing refrigerant oil, ensure correct oil is used. Current mineral oil lubricants used with R-12 systems do not provide adequate lubrication for R-134a systems. New synthetic oils, made from polyalkylene glycol (PAG), have been developed to use in R-134a systems.

For R-134a systems, it is very important that A/C system labels and compressor labels are referenced when it's necessary to add oil to a system. Not all PAG oils are the same. Vehicle and compressor manufacturers will specify the oil used. As an example, Lexus vehicles with a 10P / 10PA swashplate (piston) compressor use PAG (ND-OIL 8), and the rotary vane compressor uses PAG (ND-OIL 9).

The oil level on some compressors may be checked with the compressor mounted in the vehicle. Other compressors may have to be removed for oil measurement and adding. The system must be discharged of refrigerant first (or compressor may be isolated as previously described, if equipped with stem type service valves).

Only new, pure, moisture free refrigerant oil should be used in the A/C system. Refrigeration oil is highly refined and dehydrated. Therefore, the oil container must always be kept tightly closed when not in use. If the container is left uncapped, even for a short time, moisture will be absorbed from the atmosphere by the oil and be introduced into the air conditioning system.

If possible, run the engine and system for about 10 minutes to allow proper oil distribution through the system.

If the compressor oil level is checked with a dipstick, each ounce of new refrigerant oil added to the compressor will raise the dipstick reading approximately 1/4". Replace the oil plug sealing gasket or O-ring.

On R-12 and R-134a systems, refrigerant oil is also available in "charging cans", which are added to the system in the same manner as adding refrigerant. These cans also contain refrigerant and are added to the system during charging procedures. The cans are usually 4 oz. cans; two ounces of oil and two ounces of refrigerant.

TYPICAL OIL REPLACEMENT FOR INDIVIDUAL COMPONENTS

NOTE: The following is a general rule of thumb. Refer to an appropriate service manual for oil capacities on a specific vehicle.

If no major oil loss has occurred in the system, and only a single component has to be replaced, oil can be added to the specific component. Use amounts shown below:

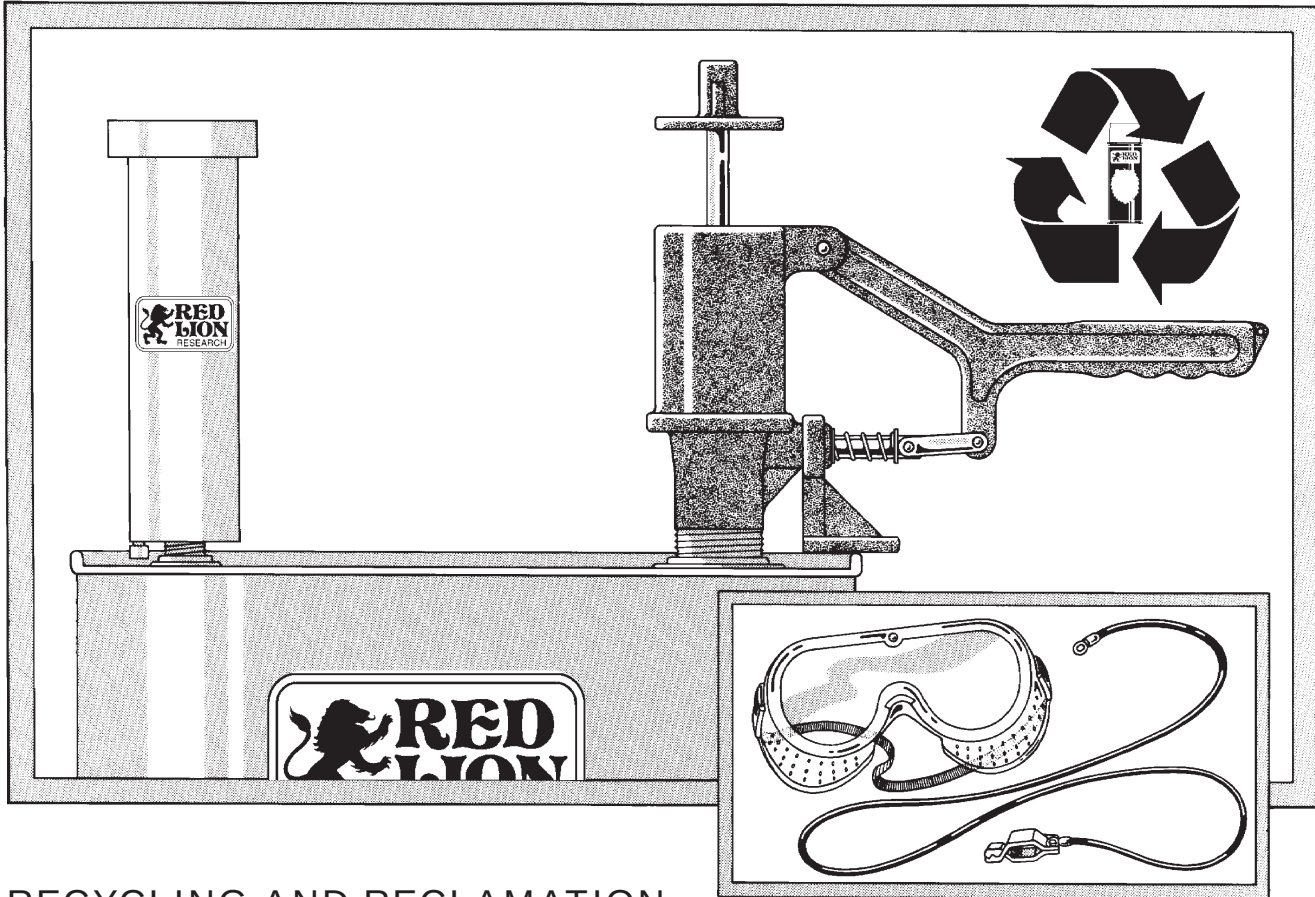
- Condenser, one ounce
- Receiver-drier, one ounce
- Desiccant bag in VIR, one ounce plus amount drained from receiver-drier
- Evaporator, 3 ounces
- Accumulator, 3 ounces

NOTE: Oil distributes itself through the system during operation. It is not always necessary to place the oil in the component being replaced. It is however, important that the oil does get introduced in to the system. If the compressor is being replaced, the oil should be put in it, instead of elsewhere.

RED LION™ CAN PUNCTURING SYSTEM

ORGANIZE YOUR WASTE HANDLING ... RECYCLE AEROSOL CANS

AVOID COSTLY DISPOSAL FEES AND HAZARDOUS WASTE FINES



RECYCLING AND RECLAMATION

- Once relieved of contents, punctured aerosol cans are not regulated and may be recycled as scrap metal or disposed of as solid waste.
- Residual liquids, released by RED LION Can Puncturing System and collected in drum, may be eligible for reclamation through a hazardous waste handler, resulting in "waste minimization" credits.

SAFETY

- Allows puncturing of aerosol cans without worker contact. The can is secured in the puncturing housing and with a press of the handle, the puncture pin moves through a fluid-tight chamber and pierces the can.
- RED LION Can Puncturing System leaves no sharp edges or crushed metal, the only effect on the can is a small, smooth-edged hole.
- Residual contents are safely collected in the drum.
- The Combination Carbon/Coalescing Filter collects V.O.C.'s in filter reservoir.
- An anti-static wire enhances operational safety, required under Federal and Local codes.
- RED LION Can Puncturing System will not allow unsafe usage. Propane bottles or aerosol cans inserted improperly cannot be punctured.

RED LION™ CAN PUNCTURING SYSTEM

CONVENIENCE

- The unit and filter thread directly into the bungs of any standard 55, 35 or 20 gallon drum.
- It's portable, weighing only 5 pounds.
- Does not require a power source and is easily operated by hand.
- Collects residual contents directly into the drum. (Most industrial solvents, lubricants, paints and cleaners can be collected in the same drum. Caustics and pesticides should be collected in 2 separate drums).
- Increases opportunities for recycling and waste minimization.
- Accommodates most standard sizes of aerosol cans.

CONSTRUCTION

- Made of aircraft aluminum, requiring no maintenance.
- All moving parts are 308 stainless steel for durability.
- Puncturing pin is O-ring sealed to prevent leakage. Grease packing lubricates puncturing pin chamber with each use.
- Carbide-tipped puncturing pin withstands repeated, long-term use, showing no visible wear after puncturing over 10,000 cans.

COMBINATION FILTER

- Threads directly into the 3/4" bung of any standard drum, effectively filtering and collecting V.O.C.'s.
- Comprises a coalescing lower portion, which removes airborne organic compounds, and an activated carbon upper portion, which absorbs odor. The coalescing portion combines submicrometer aerosol particulate into droplets which are gravitationally drained into the filter reservoir.
- Rain Hood on filter provides protection from elements for outdoor use.

COST SAVINGS

- Approximate cost of disposal of a 55 gallon drum of aerosol cans (approx. 96 cans) \$450 or \$4.690/can
- Approximate cost of disposal of liquid hazardous waste from 4,000 "essentially empty" aerosol cans (one 55 gallon drum) \$300 or \$.075/can
- Savings per can \$4.615/can

*The cost of the RED LION Can Puncturing System
can be recouped in the first 100 cans!*

P/N	DESCRIPTION	SHIPPING WEIGHT
1701	RED LION Can Puncturing System (1 Puncturing Unit, 1 Filter, 1 Anti-Static Wire, 1 Pair Safety Goggles)	8 lbs.
1702	Coalescing Carbon Filter for Puncturing Unit Puncturing Unit	1 lb.

RED LION™ CAN PUNCTURING SYSTEM

QUESTIONS AND ANSWERS

INTRODUCTION

RED LION Can Puncturing System is a solution to the expense of solid waste disposal of aerosol cans. RCRA regulations require that, unless relieved of pressure, aerosol cans be packed in a drum and manifested for solid hazardous waste disposal. A drum holds 96 cans and costs as much as \$1,500 for proper transportation and disposal. With RED LION Can Puncturing System, the cans are not solid hazardous waste, but are fully recyclable.

PUNCTURING UNIT

Q. How is it operated?

A. The RED LION Can Puncturing System threads directly to the 2" bung of a 55-gallon drum. The filter is installed on the 3/4" bung. The aerosol can is inserted (inverted) into the housing. The sliding cap is lowered and locked into place. The handle is pressed and immediately released. You will hear the contents being released into the drum.

Q. Must RED LION Can Puncturing System be installed only on 55-gallon drums?

A. No, all industry standard drums have 2" and 3/4" bung openings. However, this system should not be installed on drums smaller than 20-gallon capacity to allow proper displacement of compressed gas released during puncturing.

Q. How long does it take to puncture cans with RED LION Can Puncturing System?

A. It only takes 15-20 seconds for the can to be depleted after puncturing. One customer has punctured as many as 1,200 cans on a one-man seven-hour shift.

Q. Will the Puncturing Unit accept any size aerosol can?

A. The system is designed to puncture any industry standard aerosol can, regardless of the length. The standard unit will not puncture "jumbo" aerosol cans or 1" mini-diameter cans. A special-order unit is available for that purpose.

Q. How much can scrap steel recycling be increased with the Can Puncturing System?

A. Generally, four aerosol cans equal a pound of steel. American industry consumes 3-billion aerosol cans per year, amounting to 375,000 tons of steel.

Q. How many spent aerosols can be punctured into a drum?

A. Approximately 4,200 cans can be punctured before the drum is at maximum recommended capacity. The drum should not be filled more than 75% full, to provide proper displacement for the released contents.

Q. What do you do with the drum of liquids once it is at the recommended "full" capacity?

A. Simply call the waste handler who is handling your other hazardous waste.

Q. Can the liquids collected into the drums be reclaimed or recycled?

A. Yes, if chlorinated and non-chlorinated liquids are collected into separate drums. Chlorinated liquids (primarily solvents) can be recycled in-house as "parts cleaning solvent"; non-chlorinated liquids (primarily paints) can be reclaimed. Either method may qualify for "waste minimization credit".

Q. Are there any aerosols that should not be co-mingled when collected into the drum?

A. Yes, caustics (such as oven cleaners) and pesticides should not be collected into a drum with other liquid residuals. They can, however, be collected into segregated single-content drums designed either "pesticides only" or "caustics only".

Q. Are all aerosols considered hazardous waste?

A. Yes, but not because of the primary product they contained. Spent aerosol cans would be considered empty, and exempt from regulation, were it not for the fact that the compressed gas propellant is reactive to heat and is still present in an empty can (40 CFR 261.23 (a) (6)).

RED LION™ CAN PUNCTURING SYSTEM

QUESTIONS AND ANSWERS

Q. *Is the puncturing of aerosol cans with RED LION Can Puncturing System considered treatment?*

A. No, according to the Office of Solid Waste and Emergency Response (OSWER), which stated that "the puncturing, crushing, or shredding of non-empty aerosol cans which contain hazardous waste does not constitute treatment pursuant to 260.10, and a RCRA permit or compliance with other hazardous waste management regulations is not required. (Source Document: OSWER Directive #9432.012 (80)).

Q. *What does it cost to dispose of the collected liquids into the drum?*

A. A Hazardous Waste handler will charge from \$275 to \$350 per 55-gallon drum for proper transportation and recycling, reclamation and/or disposal. This represents the total disposal cost for the residual liquids of 4,200 spent aerosol cans. This compares to solid waste disposal cost of unpunctured aerosol cans of \$650 to \$1,200 per 96 cans! On a direct comparison of 4,200 spent cans, the cost saving with RED LION Can Puncturing System ranges from \$28,000 to \$52,000.

FILTER

Q. *How does the filter work?*

A. It is composed of two parts: a coalescing lower portion and an activated carbon upper portion. The coalescing portion collects microscopic airborne liquids from the gas and combines them into droplets which collect within the filter chamber. The activated carbon absorbs oxygen and odor from the "dry" gas which has passed through the coalescing portion. It effectively reduces VOC's from the escaping gas.

Q. *Does any compressed gas remain in the drum?*

A. The compressed gas seeks escape through the point of least resistance, which is the filter. However, a minimal amount of gas may remain in the drum. By leaving the "last" can punctured within the housing until puncturing is resumed, an effective prolonged seal can be maintained.

Q. *Can pressure build in the drum?*

A. The filter relieves at 3 psi, eliminating the possibility of unsafe pressure within the drum. Additionally, the activated carbon portion of the filter has been designed to serve as a highly efficient flame arrestor.

Q. *When does the filter need to be changed?*

A. After 45-60 days, or after puncturing 1,200 spent aerosols, whichever comes first, because the activated-carbon will reach its maximum absorption level.

Q. *Once used, is the filter considered hazardous waste?*

A. The filter is designed to allow draining prior to disposal. If drained, the filter would stay below the 3% by weight EPA allowance for non-regulated disposal. To drain filter, locate drain cock at bottom edge. Remove drain cock cover while holding filter over RED LION Can Puncturing System housing. Drain filter through housing directly into drum.

Q. *Does the procedure require any permitting from the Air Quality Control Board?*

A. No, permitting is only required when processing 50 pounds or more per hour, which is not the case with aerosol cans. Permitting generally applies to gas-filling facilities: welding gases, large gas cylinders, etc.

ANTI-STATIC WIRE

Q. *Why is the anti-static wire necessary?*

A. In many cases, there is an OSHA requirement for grounding of "vessels" to prevent any build-up of static electricity being transferred to a drum. The Anti-Static Wire grounds the drum and the RED LION Can Puncturing System unit simultaneously. The RED LION Can Puncturing System itself is not capable of generating a static charge. It is non-powered and utilizes a non-sparking carbide puncture pin.

RED LION™ CHEMICALS – SELECTOR

APPLICATION:	AEROSOL & MISCELLANEOUS PROBLEM SOLVERS:		BULK PROBLEM SOLVERS:
1. Adhesives	E-Z Poxy™: 200, Aluminum, Aqua Repair, Concrete, Copper, Cups, Plastic and Wood E-Z Poxy™ Fast Set E-Z Poxy™ Metal and Concrete Drop-Tite™ Epoxy System Fast-Fix™ Epoxy Patch Kit	Fast-Fix™ Pipe & Hose Repair Kit Instant Adhesive Instant Adhesive Gel Liquid Electrical Tape Loctite® Thread Treatment Sticks RTV Black, Clear, Red and White Spray Adhesive PVC & CPVC Cements Pow-R-Bond Stud Lock and Bearing Mount Super Adhesive Sealant	
2. Automotive	Anti-Seize Anti-Seize II Battery Cleaner Battery Protector Belt Dressing Brake Cleaner N.C. Choke & Carb Cleaner 4-Way Plus Fast-Fix™ Pipe & Hose Repair Kit Gasket & Paint Remover Gear Oil	Gear Re-Nu™ Insta-Clean™ Insta-Clean Wipes Insta-Shine™ Truck/Bus Protectant Penetrating Oil Prep-Solve RTV Black Gasket Maker RTV Red Hi-Temp Gasket Maker Safe-T-Line™ Engine Cleaner Super Impact Grease White Grease	Big Job™ Truck Wash Diesel Fuel Additive Super Gloss Wash-N-Wax™
3. Cleaning and Degreasing	A&R Tabs Citrus Grease Digester Degreaser Dis-N-Clean Easy-Out™ Stain Remover Glass Cleaner Glass Cleaner Wipes Insta-Clean™ Insta-Clean Wipes Prep-Solve Quick Clean	Quick Shine™ Metal Polish Quick-Solv Quick-Zorb™ QX1 Bath & Tile Cleaner QX1 Disinfectant Cleaner QX1 Glass Cleaner w/Anti-Stat QX1 Multi-Purpose Cleaner Safe-T-Line™ Glass Cleaner Safe-T-Line™ H.D. Citrus Cleaner/Degreaser Safe-T-Line™ Kleen & Shine™ Safe-T-Line™ No-Scrub™ Cleaner	Aluminum Brite™ Citrus Grease Digester Clear View™ H.D. Citrus Cleaner/Digester
4. Drain & Sewer	Drain Opener		Citrus Grease Digester Lift-Out™ Lift Station Degreaser N-Zyme™ Drain Maintenance
5. Equipment	Coil and Filter Cleaner Degreaser		Aluminum Brite Coil and Filter Cleaner Equipment Clean Stem Clean Steam Clean HD Super Clean X-tra Clean™
6. Floor Care	Easy-Out™ Stain Remover		Floor Glo™ and Super Stripper™
7. Grounds Care	Concrete Crack Repair Quick Clean	Safe-T-Line™ No-Scrub Cleaner Vanish	Vanish
8. Hand Cleaning	Hand Sanitizing Gel H.D. Citrus Scrub H.D. Citrus Wipes PVA Hand Cleaner Pow-R-Scrub Hand Cleaner	Pro-Clean Antibacterial Hand Soap Pro-Clean Heavy Duty Hand Soap Pro-Clean H.D. Citrus Scrub Pro-Clean Pink Lotion Skin Cleaner Pro-Clean Enriched Lotionized HS	

RED LION™ CHEMICALS – SELECTOR

APPLICATION: 9. Maintenance and Workbench	AEROSOL & MISCELLANEOUS PROBLEM SOLVERS:		BULK PROBLEM SOLVERS:
	Air Tool Conditioner Anti-Seize Anti-Seize II Contact Cleaner Contact Cleaner P.S. Cutting Fluid III 4-Way Plus Penetrating Oil	Safe-T-Line™ Hydro-Cool Tool Coolant Stor-Safe™ Rust Inhibitor Stud Lock & Bearing Mount Threadlocker Tool Cool II Toolube Loctite® Thread Treatment Sticks	4-Way Plus Synthetic Cutting Fluid
10. Pests	Ant & Roach Spray	Insect Repellent	Wasp & Hornet Killer
11. Odor Control	A&R Tabs Baby Powder Odor Eliminator Safe-T-Line™ Smoke & Odor Eliminator	Quick-Zorb QX1 Odor Eliminator	Odor Eliminator Odor Eliminator SC Pleasant Scent Pleasant Scent Green Apple
12. Paints and Coatings	Ceiling Tile Spray White Caterpillar – Old Caterpillar – New Clear Epoxy Grit Cold Zinc Galvanizing Gasket & Paint Remover Pro-Coat™ Stainless Steel Protective Coating Red Insulating Varnish Rust-Away™ Rust Conversion Coating Rust-Away II Stor-Safe Rust Inhibitor Striping & Marking Paints	Pro-Coat™ Paints: Gloss Black Gloss White Gray Primer Hi-Temp Flat Black Industrial Gray OSHA Blue OSHA Green OSHA Red Phosphorescent Red Oxide Primer Undercoat	
13. Sealers and Protectors	Insta-Shine™ Truck/Bus Protectant Pro-Tex RTV Black Gasket Maker RTV Blue Gasket Maker RTV Clear Gasket Maker	RTV Red Hi-Temp Gasket Maker RTV White Gasket Maker Stor-Safe™ Rust Inhibitor Super Adhesive/Sealant Teflon Pipe Sealant Thread Sealant Hydraulic/ Pneumatic	
14. Solvents and Degreasers	Battery Cleaner Battery Cleaner N.C. Contact Cleaner E.S.	Degreaser Safety Solvent E.S. Safety Solvent III	Equipment Clean Safety Solv 2000™
15. Specialty Lubricants	Anti-Seize Anti-Seize II Anti-Seize Aluminum Anti-Seize Copper Blue Grease Cable & Chain Core Lube Chain Lube and Clear Lube Dielectric Grease 4-Way Plus Hi-Temp Grease Lithium Grease White Low-Temp Grease	Moly Dry Lube Penetrating Oil Pro-Pull™ Wire Pulling Lube Red Grease Safe-T-Line™ Red Grease Safe-T-Line™ Silicone Silicone Super Impact Grease PTFE Dry Lube TFG Grease White Grease	
16. Miscellaneous	Dust Blaster™, Dust Blaster II™, and Dust Blaster Max No-Stick™ Welder's Anti-Spatter		

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REPRINT OF
TEST RESULTS OF
RED LION CAN
PUNCTURING SYSTEM.
MANUFACTURED BY
KATEC, INC.

StarScan™ Test Services

prepared for

Katec, Incorporated

May 21, 1992

STAR Laboratories

St. Paul, MN

ABSTRACT

Capsule exhaust filters for use with Katec's pressurized paint can disposal system were tested for VOC removal and total hydrocarbon emissions during the puncturing process. The results were compared with STEL values for each of the VOC's tested and the desired 300 ppm hydrocarbon emission concentration. In addition, calculations were performed to determine the maximum number of cans which could be processed per drum per day given a maximum discharge of 15 pounds per drum per day limitation.

DAILY PROCESSING LIMITATION

Given the limitation of 15 pounds of propellant per day per drum, we have quantified the number of cans which may be processed per day based upon the information supplied:

1. 97% of all cans are basically empty.
2. 3% of the cans range from nearly empty to full.
3. The propellant accounts for 1/3 of the amount of fluid in a full can.

By weighing cans before and after puncturing, it was determined that full cans had 15 oz. of fluid and empty cans contained 1% of the original fluid weight. For purposes of calculation, we have assumed the 3% fraction of cans which range from empty to full to be half full.

Consequently, the number of cans, X, which may be punctured per day per drum given the above conditions is:

$$[(97\% \text{ of cans}) \times (1\% \text{ full}) \times (15 \text{ oz./full can}) \times (33\% \text{ propellant})] \times (X) \\ + [(3\% \text{ of cans}) \times (50\% \text{ full}) \times (15 \text{ oz./full can}) \times (33\% \text{ propellant})] \times (X) \\ = (15 \text{ pounds propellant/day/drum}) \times (16 \text{ oz./pound})$$

or,

$$(0.97)(0.01)(15)(0.333)X + (0.03)(0.50)(15)(0.33)X = (15)(16) \\ 0.124X = 240$$

$$X = 1,935 \text{ cans/day/drum}$$

Therefore, 1,935 cans per day per drum may be punctured given the limitation of 15 pounds of propellant per day per drum.

VOC REMOVAL TESTING

METHOD

The test filter was tested by puncturing a paint can into a full drum (a 55 gallon drum filled approximately 10" from top). For each paint can tested, all of the effluent from the filter was collected in Kevlar bags and a known volume sample was drawn through one or two carbon media tubes. The tubes were then analyzed using a gas chromatograph to determine the concentration of Acetone, Methyl Ethyl Ketone (MEK), Toluene and Xylene in the effluent.

RESULTS — RUSTOLEUM PAINT, GLOSS WHITE, 15 oz. CAN

	CONCENTRATION (ppm)			
	ACETONE	MEK	TOLUENE	XYLENE
OHSA LIMITS (STEL ¹)	1,000	300	150	150
NO FILTER	39	1	3,870	3,131
W/FILTER, full can (15 oz.)	>54 ²	2	48	4
W/FILTER ³ , full can (15 oz.)	55	2	48	8
W/FILTER, empty can (<1 oz.)	<9	<7	<5	<4

¹STEL = Short Term Exposure Limit, — Exposure allowed in 15 minute period.

²Slightly greater than 54 ppm limit of single tube sampling tube.

³Sampled with two sampling tubes for Acetone determination

continued ➤

TOTAL HYDROCARBON EMISSIONS

METHOD

A Flame Ionizing Detector (FID), calibrated to Methane, was used to measure the amount of hydrocarbon emissions at two points six inches away from the filter. The first point was directly above the center of the filter, and the second was to the side, toward the operator at a height even with the top of the filter. At each point, two cans of nearly empty Rustoleum dark gray auto primer (12 oz. cans) were punctured and the maximum readings were recorded on the FID.

CONDITIONS

1. 55 gallon drum: filled to approximately 10 inches from the top with water and paint.
2. Test filter through which one empty 15 oz. can (fumes only) had been discharged through filter prior to these tests.
3. Outlet concentration readings with FID with no filter exceeded FID limitation of 1,000 ppm.

RESULTS

CAN % FULL	TOP OF FILTER (ppm)	SIDE OF FILTER (ppm)
11	100	—
1	80	—
1	—	100
1	—	80

SUMMARY

It was calculated that 1,935 used paint cans/day/drum may be punctured for disposal and discharge less than the 15 pounds/drum/day limitation given a standard mix of 97% nearly empty cans (1% full) and 3% empty to full cans (averaging 50% full).

With the use of the filter, the effluent concentration of VOC's was significantly less than the STEL for each of the hydrocarbons tested (Acetone, MEK, Toluene and Xylene).

With the use of the filter, the total hydrocarbon concentration measured at points 6" from the filter during the puncturing process was 80-100 ppm, significantly less than the 300 ppm desired limitation.

Date: May 21, 1993

Name: *Eric C. Stanten*

Title: Mechanical Engineer, R&D Dept.



BULK CHEMICALS

The Finest Quality Chemicals Available

Red Lion™ Bulk Chemicals are superior products resulting from extensive research and development. They provide unmatched performance without compromising safety.

Available in 1, 5, 30 & 55 gallon bulk containers.

RED LION™ BULK CHEMICAL SIZES

DESCRIPTION	55 GAL.	30 GAL.	5 GAL.	1 GAL.*	QUART
ALUMINUM BRITE™	74240	74241	74243	—	974240
BIG JOB TRUCK WASH	74235	74236	74238	74239	974235
CITRUS GREASE DIGESTER	74250	74251	74253	74254	974250
CLEAR VIEW™	74350	—	74353	—	974350
COIL & FILTER CLEANER	74340	74341	74343	74344	974340
DIESEL FUEL ADDITIVE	74245	74246	74248	74249	—
EQUIPMENT CLEAN	74305	74306	74308	74309	974305
FLOOR GLO	74345	74346	74348	74349	974345
H.D. CITRUS (CLEANER/DEGREASER)	74215	74216	74218	74219	974215
LIFT-OUT™ LIFT STATION DEGREASER	74280	74281	74283	74284	974280
N-ZYME™ DRAIN MAINTENANCE	74285	74286	74288	74289	974285
ODOR ELIMINATOR	74360	74361	74363	74364	974360
ODOR ELIMINATOR SC	74270	74271	74273	74274	—
PLEASANT SCENT	74230	74231	74233	74234	974230
PLEASANT SCENT GREEN APPLE	74225	74226	74228	74229	974225
SAFETY-SOLV 2000™	74275	74276	74278	74279	974275
STEAM CLEAN	74310	74311	74313	74314	974310
STEAM CLEAN HD	74315	74316	74318	—	974315
SUPER CLEAN™	74300	74301	74303	74304	974300
SUPER GLOSS WASH-N-WAX "PF"	74220PF	74221PF	74223PF	74224PF	974220PF
SUPER STRIPPER	74355	74356	74358	74359	974355
X-TRA CLEAN N.B.	74335	74336	74338	74339	974335

*ONE (1) GALLON CONTAINERS PACKAGED FOUR (4) GALLONS PER CASE. FULL CASE SHIPMENTS ONLY (NO SPLITS). CAN BE SHIPPED VIA U.P.S.